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Urban Technology

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Mel Josephs
Managing Editor

Highlights

ENVIRONMENTAL MANAGEMENT AND PLANNING

Financial Methods for Solid Waste Facilities. Evaluates current financing alternatives to municipalities and private enterprise for solid waste management.

Solid Waste Milling and Disposal on Land Without Cover. Volume I. Summary and Major Findings. Discusses operation and costs of milling equipment and characteristics of milled solid wastes.

Population Distribution of the United States as a Function of Outdoor Noise Level. Is directed toward setting standards that will contribute to reducing community environmental noise in the U.S.

Key Land Use Issues Facing EPA. Presents an overview of land development issues and associated environmental impacts.

TRANSPORTATION AND TRAFFIC PLANNING

A Review of Reports Relating to the Effect of Fare and Service Changes in Metropolitan Public Transportation Systems. Relates changes in the fare structure and in operating policies to ridership in urban public ground passenger transportation.

Interactive Graphics and Transportation Systems Planning. Reports on the application of interactive graphics to systems planning and design and discusses techniques and tools to improve the transportation planning process.

ATA Rail Transit Conference Held in San Francisco, California on April 14 and 16, 1974. Car Equipment Sessions. Papers. Presents papers on BART's operating experience, transit vehicle maintenance, train control systems, fire-safe subway signal cables, and problems pertaining to electronic equipment and electric propulsion systems.

Incidents and Freeway Operations. Investigates freeway traffic flow and how to detect incidents that would alter normal traffic flow in arterial corridors.

URBAN-REGIONAL RELATIONSHIPS

How to Implement Open Space Plans for the San Francisco Bay Area. Volume I. A Summary of Implementation Programs and a Proposal for Governmental Organization. Examines legal tools available to local governments for carrying out open space plans.

ENVIRONMENTAL MANAGEMENT AND PLANNING

Renovation of Secondary Effluent for Reuse as a Water Resource.
Louis T. Kardos, William E. Sopper, Earl A. Myers, Richard R. Parizek, and John B. Nesbitt.
Pennsylvania State Univ., University Park. Dept. of Agronomy. Feb 74, 514p W74-10197, EPA-660/2-74-016
Paper copy available from GPO $4.80.
PB-234 176/6WU PC-GPO/MF$2.25

Sprinkler application of chlorinated secondary sewage effluent at levels of 1 or 2 in/wk during the growing season or year-round increased crop yields and forest tree growth except for red pine at the 2 in/wk rate. Harvested crops removed large amounts of nitrogen and phosphorus, the two key eutrophication nutrients. N and P content of forest foliage was increased but the nutrients were recycled through the litter. Only one deep monitoring well showed higher NO3 and Cl(-) concentration definitely ascribable to the effluent irrigation but still met U.S.P.H.S. drinking water standards. Recharge within one 43.5 acre site was estimated at 65 million gallons per year and resulted in lower pumping costs in two nearby University water supply wells. Data are also reported on hydrologic studies, boron studies, aeration studies, phosphorus adsorption studies and soil chemical changes.

Practices in Detention of Urban Stormwater Runoff.
Herbert G. Poertner.
Poertner (Herbert G.), Bolingbrook, Ill. Jun 74, 206p W74-10696, OWRR-C-3380(3722)(1)
PB-234 554/4WU PC$5.75/MF$2.25

On-site detention of runoff was investigated as an alternative to other methods of urban stormwater runoff management. It was found that this method, which involves collecting excess runoff before it enters the sewer system, can often be applied as an effective and economical means of reducing peak runoff flow rates to lessen or eliminate problems of flooding, pollution, soil erosion and siltation. The captured runoff sometimes can be used to augment water supplies for potable or non-potable uses, and the detention facilities can be designed to serve multiple-purpose uses, especially recreation. The use of on-site detention facilities has been given emphasis in those urban areas where flooding is a frequent problem. A 1972 survey of selected local jurisdictions in urban areas of the United States and Canada revealed that more than 1,400 facilities were operational in about 100 local jurisdictions reporting applications.

—Highlight—
Financial Methods for Solid Waste Facilities.
Resource Planning Associates, Cambridge, Mass. 1974, 385p EPA-SW-530-76c
PB-234 612/0WU PC$8.25/MF$2.25

The report catalogues and evaluates a broad range of current financing alternatives available to municipalities and private enterprise for the purpose of developing and maintaining solid waste management systems. On the public side the report discusses in depth, the various forms of municipal borrowing along with current revenue financing. The status of various forms of private financing is discussed ranging from traditional institutional borrowing through industrial revenue bonds issuance and leveraged leasing. The report summarizes and evaluates organizational alternatives for financing and management in addition to analyzing and making recommendations with respect to financial mechanisms and assistance programs designed to stimulate capital investment.

—Highlight—
Solid Waste Milling and Disposal on Land Without Cover. Volume I. Summary and Major Findings.
John J. Reinhardt, and Robert K. Ham.
Madison, Wis. 1974, 181p EPA-SW-530-62d.1
PB-234 930/6WU PC$5.50/MF$2.25

The project began as a practical demonstration to investigate the concept of milling solid waste for landfill disposal without applying daily cover. The project was intended to gather data on the operation and cost of milling equipment, the use of milled solid waste in a landfill, and the characteristics of milled solid waste--all from a practical standpoint. Eventually, however, project personnel carried out detailed investigative work on both milled and unprocessed solid waste. To determine whether landfilling milled solid waste lived up to the approval given by European landfill operators, it became necessary to design experiments involving rats, flies, leachate, gas, trees, etc. in hopes of quantifying such factors.

—Highlight—
Population Distribution of the United States as a Function of Outdoor Noise Level.
W. J. Galloway, K. McK. Eldred, and M. A. Simpson.
Bolt, Beranek and Newman, Inc., Cambridge, Mass. Jun 74, 68p EPA-550/9-74-009
PB-235 022/1WU PC$3.75/MF$2.25

The report summarizes the planning, conduct and results of a noise survey in 100 sites in urban areas across the United States and the use of these results, coupled with other existing data, to provide an estimate of the outdoor noise levels experienced in residential areas by the United States population. It concludes that there are more than 75 million people living in areas in excess of 60 decibels and 600 thousand in areas in excess of 80 decibels.

Application of Statistical Techniques to the Selection of an Optimal Pollution Treatment Program.
A. B. Whinston, J. R. Marsden, and D. E. Pingry.
Purdue Univ., Lafayette, Ind. Water Resources Research Center. Jun 74, 126p TR-51, W74-11570, OWRR-A-024-IND(8)
PB-235 327/4WU PC$4.75/MF$2.25

The research is directed toward the application of statistical and related techniques to the selection of an optimal pollution treatment system. The work attempts to develop several techniques which can be used in analyzing data obtained from waste treatment plant operations. Using the concepts of cost and production functions, the possibility was explored for developing useful models for the operation of waste treatment plants. The Federal Water Control Act and the 1972 Amendments have given the states the problem of developing and monitoring regional plans for improving water quality. State pollution agencies are turning to the use of computers and modelling techniques for analyzing these problems. It is hoped that the work reported will eventually lead to techniques that help in this task.

—Highlight—

Key Land Use Issues Facing EPA.
Harbridge House, Inc., Boston, Mass. Feb 74, 381p EPA-230/3-74-011
PB-235 345/6WU PC$8.25/MF$2.25

The report identifies key land use issues facing EPA and analyzes those issues in terms of the environmental impacts involved and the projected magnitude of the problems over time. The need to view land use in terms of an intermedia perspective is emphasized. A preliminary analysis is made of broad land use categories, i.e., agriculture, mining silviculture, transportation, energy facilities, and residential, commercial and industrial usage. Land use issues are divided into two subdivisions: General growth pattern and the siting of key facilities. Each of the major land uses is viewed in terms of impact on air, water, and noise pollution levels, and indirect effects such as induced development on surrounding land. Land use variables which reduce adverse environmental impact are cited. Several growth issues are discussed: concentration versus dispersion, development patterns, rural-urban interface, nondegradation, critical areas, and new construction. In the area of facility siting, the study focuses upon projected demand, supply and land use patterns, primary and secondary environmental impacts, and land use control measures to abate adverse environmental impact. The report is documented in attached appendices.

Metropolitan Water Intelligence Systems.
Maurice L. Albertson, Neil S. Grigg, John W. Labadie, Harry G. Wenzel, and George L. Smith.
Colorado State Univ., Fort Collins. Dept. of Civil Engineering. Jun 74, 287p W74-11457, OWRR-C-4172(9028)(4)
PB-235 532/9WU PC$6.75/MF$2.25

The results of the three phases of the Colorado State University project 'Metropolitan Water Intelligence Systems' (MWIS) are reported. The special type of MWIS considered is the fully automated control system for combined sewer systems. The report principally contains technical data on the solution of the control strategy problem and on optimization techniques for developing control logic. The socio-political problems associated with implementing a MWIS are discussed as well as the problems facing local decision makers who must comply with shifting standards under heavy time, technological, financial and political constraints.

TRANSPORTATION AND TRAFFIC PLANNING

—Highlight—

A Review of Reports Relating to the Effect of Fare and Service Changes in Metropolitan Public Transportation Systems.
Dempster K. Holland.
Saint Louis Univ., Mo. Center for Urban Programs. Jun 74, 26p
PB-234 069/3WU PC$3.25/MF$2.25

The report reviews articles and reports developed in the past ten years relating to demand elasticities for public ground intra-city transportation. It is designed to provide policy makers with a quick overview of the literature. Some major headings are: (1) an increase in fares will decrease patronage, but will result in a net increase in revenues; (2) the effect of fare increases differs depending on circumstances; (3) the relationships probably operate in the same manner with fare decreases, but in the opposite direction; (4) increased frequency will increase patronage, but no clear pattern has been found to suggest a method of numerical prediction; (5) it is difficult to judge the relative impact of each when improvements occur simultaneously; and (6) the attributes of speed, comfort, convenience, and wide choice of destination are as important as fare in attracting persons.

—Highlight—

Interactive Graphics and Transportation Systems Planning.
Kirtland C. Mead.
Transportation Research Board, Washington, D.C. 1974, 84p TRB/TRR-74/491, ISBN-0-309-02279-7
PB-234 534/6WU PC$3.40/MF$2.25

Contents:
- A framework for system planning process description;
- An accurate and efficient approach to equilibrium traffic assignment on congested networks;
- Time-staged strategy in the transportation planning process;
- Implementation of operational network equilibrium procedures;
- Planning urban transportation systems for productivity, efficiency, and quality of services;
- Interactive graphics as a tool in plan evaluation;
- Assessing the utility of an interactive graphic computer system:
- a transportation systems design problem.

The Individual's Way of Choosing Between Alternative Outlets.
Orvar Westelius.
National Swedish Inst. for Building Research, Stockholm. 1973, 164p D17:1973, ISBN-91-540-2215-0
PB-234 659/1WU PC$11.25/MF$2.25

The document reports on a study of the travel habits exhibited by the residents of the Stockholm area based on interviews made during two surveys carried out in 1967 and 1968.

Williamsport Area Transit Study. Transit Development Program.
Pennsylvania Dept. of Transportation, Harrisburg. Apr 74, 88p UMTA-PA-09-0015-74-1
PB-234 666/6WU PC$4.00/MF$2.25

In 1969, the city of Williamsport, Pa., purchased the city bus lines. Thereby preserving transit service since the private operator had been suffering losses which precluded continuation of operations. However, performance of bus operations has been declining. Questions have been raised as to whether existing service should be increased or decreased, fares raised or lowered, routes changed, or apportionment of operating losses to service municipalities be re-evaluated, and whether the ever-increasing deficit can be decreased. The study was undertaken to answer the above questions and to develop a program covering the period 1973-77.

The Development of the Green Cross Code.
K. J. Sargent, and D. Sheppard.
Transport and Road Research Lab., Crowthorne(England). 1974, 39p TRRL-LR-605
PB-234 771/4WU PC$5.00/MF$2.25

The research is described which led to the production of a code for pedestrians crossing the road. Some hundreds of mothers of young children, road safety officers and teachers were asked to assess the relative importance of 20 items concerned with crossing roads safely. There was considerable agreement about priorities and, based on this, some alternative forms of a new crossing code were devised. 294 children between 5 and 7 were questioned at the roadside to see whether they could understand these terms and phrases. On a basis of these results, what appeared to be the best wording was chosen and 170 children aged 7 - 8 were tested at the roadside to find out whether they could carry out the instructions: their ability to read the code was also tested. The results were satisfactory and the new code was publicised later (May 1971) as the 'Green Cross Code'. (Modified author abstract)

—Highlight—

ATA Rail Transit Conference Held in San Francisco, California on April 14 and 16, 1974. Car Equipment Sessions. Papers.
Louis J. Lawson, William J. Presho, Anthony Venturato, Jeffrey G. Mora, and John R. Vollmar.
American Transit Association, Washington, D.C. Aug 74, 74p ATA/RT-74/1 Paper copy also available in set of 3 reports as PB-234 823-SET, PC$12.00.
PB-234 824/1WU PC$3.75/MF$2.25

Two of the papers concern the BART maintenance philosophy and their scheduled and unscheduled maintenance, rail vehicle inspection, diagnostic procedures and vehicle warranties as well as personnel training and tools and materials. The paper by Jeffrey Mora discusses the AC motor versus D.C. motor versus D.C. motor demonstration project conducted on three Cleveland Transit System rail cars. Mr. Lawson discusses a current study of the use of a kinetic energy flywheel as an efficient energy storage system and is intended to demonstrate this system in San Francisco Muni electric trolley coaches. The paper by J. R. Vollmar discusses the merits, costs and problems of electric locomotive versus multiple unit electric trains in both commuter and inter-city service.

ATA Rail Transit Conference Held in San Francisco, California on April 14 and 16, 1974. Operations Sessions. Papers.
R. W. Raush, A. L. Bingham, W. W. McDowell, L. W. Breiner, and R. M. Lindsey.
American Transit Association, Washington, D.C. Aug 74, 106p ATA/RT-74/2 Paper copy also available in set of 3 reports as PB-234 823-SET, PC$12.00.
PB-234 825/8WU PC$4.50/MF$2.25

Five of the papers concern BART's operating experience including the coordination of BART with the bus service on the East side of the San Francisco Bay, passenger relations, and evolution of the BART Police Services Department. Also discussed is some of the history of the planning for BART, the highlights of operating experience and plans for future extensions of service. Four of the papers relate to ridership promotion and fare reduction or incentive techniques of winning new riders to transit. The paper by Victor Strom relates to transit energy conservation programs.

ATA Rail Transit Conference Held in San Francisco, California on April 14 and 16, 1974. Power and Signals Sessions. Papers.
G. J. Pastor, Chester H. Engle, John G. Mombach, Harold T. Ledsham, and Charles Kalkhof.
American Transit Association, Washington, D.C. Aug 74, 131p ATA/RT-74/3 Paper copy also available in set of 3 reports as PB-234 823-SET, PC$12.00.
PB-234 826/6WU PC$4.75/MF$2.25

Three of the papers relate to power and train control systems for rail rapid transit and Pastor describes the state of the art of automatic train control systems. Engle's paper refers to the environmental problems relative to electronic equipment. The Ledsham paper relates to Thyrister Chopper train controls with regenerative power capability and the Toronto test program with this equipment. The Mombach paper discusses NYCTA study of the relative ability of four different types of subway signal cable to function during a fire and the relative toxicity of their combustion products. Mr. Kalkhof studies the cross bonding of running rails to improve the negative return path for propulsion current, and to minimize electrolysis to adjacent structures.

—Highlight—

Incidents and Freeway Operations.
Allen R. Cook.
Transportation Research Board, Washington, D.C. 1974, 101p TRB/TRR/74/495, ISBN-0-309-02283-5
PB-235 166/6WU PC$4.00/MF$2.25

The papers in this Record are concerned with disabled vehicles and other incidents that temporarily reduce the capacity of freeways. They are of special interest to all concerned with traffic operations in arterial corridors. The publication includes investigation of the feasibility of using the traffic flow information from on-line, computer-based surveillance systems to detect incidents on the John Lodge Freeway in Detroit and on the Gulf Freeway in Houston; a final report on the use of Citizens Band radio to provide a highway communications service in Ohio; a discussion of detector reliability with reference to a motorist information system on the Gulf Freeway in Houston; a description of a Kalman filtering methodology for the estimation of traffic densities on multilane roadways, tested by using aerial photography data; an examination of the phenomenon of the discontinuous drop in flow that occurs as traffic density increases; a discussion of a method for smoothing flow during congestion; and a discussion of the optimization techniques that have been developed and applied for evaluating freeway operational improvements such as redesign or ramp control strategies.

Development of Experimental Design Methodology for Evaluating Mass Transit Demonstrations. An Application to the Seattle Express Bus Service Demonstration Project. Volume 2. Appendices.
Northwestern Univ., Evanston, Ill. Transportation Center.
Sep 73, 100p UMTA-IL-06-0021-73-2
PB-235 510/5WU PC$4.00/MF$2.25

A major objective of the UMTA demonstration projects is to develop a systematic and effective means of evaluation which will enable determination not only of effectiveness of specific projects but also the extent of applicability to other areas in the country. Volume two contains the appendices to the Volume I main report. Materials are given on ridership on Blue Streak Routes, origin and destination surveys, Magnitude of vehicles using expressway facilities, methods of counting bus passengers, and issues arising from the study.

Aid to Senior Citizen Mobility in East Orange, New Jersey. An Escort Service.
Albert T. Rinaldi.
National Council of Jewish Women, Millburn, N.J. Essex County Section. Feb 73, 194p SRS-RD-93-75147-001
PB-235 631/9WU PC$12.75/MF$2.25

A demonstration project was begun on September 1, 1971 to test the hypothesis of the apparent need for the elderly population for an escort service, a corps of transportation aides, to accompany individuals on public transporation. Because of the apparent difficulty many elderly individuals have in using public transportation (buses, trains, taxis), due to the handicaps of increasing age, it was felt that latent demand of the elderly population for this trip-making could be drawn out by this means. Accordingly, a sample of the population of East Orange, New Jersey, was interviewed to determine current intentions and habits with respect to trip-making; the local transportation system was studied to develop knowledge of its availability and applicability to the elderly population's trip-making propensity, and escort personnel were hired.

A Filter Lane for Left-Turning Traffic at Slough-Central Roundabout (M4/A355).
M. J. Philbrick.
Transport and Road Research Lab., Crowthorne (England).
1974, 20p TRRL-LR-634
PB-235 664/0WU PC$4.00/MF$2.25

Experimental markings have been used in the roundabout at Slough-Central motorway interchange, to ease the problem of evening peak-hour queues in the westbound exit slip road from M4. An exclusive lane was marked in the existing roundabout carriageway to allow left-turning traffic from the slip road to filter through the roundabout, without having to give way to circulating traffic. This movement accounted for two-thirds of the slip road flow. With similar before and after levels of circulating traffic, a 36% increase in slip road capacity was recorded, and a corresponding increase in total flow through the 'weaving section' of 12%. Queues of left-turning vehicles, which had previously blocked back onto the motorway main carriageway, have largely disappeared. No personal injury accidents were reported in the first seven months of operation.

COMMUNICATIONS

Radio-Retransmission System.
Stanley D. Peirce.
Army Land Warfare Lab Aberdeen Proving Ground Md Jun 74, 23p LWL-TR-74-88
AD-784 050/7WU PC$3.00/MF$2.25

Two commercial radio retransmission devices were tested and evaluated for use by Military Police in CONUS. It was shown that such systems provide a useful and needed capability which permits MP's to remain in radio contact with their headquarters and other MP patrols without need to remain at their vehicle radios. (Author)

Examination of the Feasibility of Conventional Land Mobile Operations at 950 MHz. Phase 2, Mobile to Base.
Jules Deitz, Frank Lucia, and John Wang.
Federal Communications Commission, Washington, D.C. Office of the Chief Engineer. 30 May 74, 57p R-7202
PB-234 218/6WU PC$6.00/MF$2.25

The report contains propagation data and communication quality observations, mobile to base, at 950 MHz. It also contains similar information for 450 MHz for purposes of comparison. The report contains coverate maps based on communication quality. It was found that even at the present state of development, two 950 MHz satellite receiving points are sufficient for good reception from mobile units operating within 23.6% of the District of Columbia area.

Media and Local Government: A San Francisco Bay Area Survey.
Association of Bay Area Governments, Berkeley, Calif. Oct 73, 29p
PB-234 794/6WU PC$3.25/MF$2.25

For bibliographic citation see URBAN-REGIONAL RELATIONSHIPS

Testing the Applicability of Existing Telecommunication Technology in the Administration and Delivery of Social Services.
J. J. O'Neill, C. A. Paquatte, S. Polk, and F. L. Skinner.
Mitre Corp., McLean, Va. 12 Apr 73, 217p M73-52, SRS-22-55951-001
PB-235 665/7WU PC$5.75/MF$2.25

The report documents findings resulting from a feasibility study of the application of telecommunications to social and rehabilitation services delivery and administration. An analysis was performed of the information content and characteristics of various social service and rehabilitation activities at the local level. The results from this exploratory study indicate that substantial cost efficiencies might be realized with the help of telecommunication technology. A demonstration program is recommended to verify and quantify these estimates and to develop models which will promote research utilization by the states.

HOUSING PLANNING AND CONSTRUCTION

Census of Population and Housing: 1970. Procedural History. Advance Issuance of Chapters 9 and 10.
Bureau of the Census, Washington, D.C. Mar 74, 70p
CENSUS-70-PHC(R)-1D Paper copy available from GPO $1.45.
COM-71-80014-1D/WU PC-GPO/MF$2.25-NTIS

The report consists of two chapters that are portions of the forthcoming report 1970 Census of Population and Housing: Procedural History, PHC(R)-1. The various chapters are being issued as they are completed and in advance of assembly in the comprehensive report. When assembled, the PHC(R)-1 report will describe in detail most aspects of the 1970 census, from its early stages of research and planning through the tabulation, publication, and dissemination of the final results, with each chapter focusing on a particular stage. Chapter 9 of the report describes the procedures used by the Bureau of the Census in conducting the censuses of population of Puerto Rico and the outlying areas. A bibliography lists published materials relating to instructions and manuals for the census enumeration. Chapter 10 of the report gives information on publication procedures of the 1970 census.

Census of Population and Housing: 1970. Evaluation and Research Program. Estimates of Coverage of Population by Sex, Race, and Age: Demographic Analysis.
Bureau of the Census, Washington, D.C. Feb 74, 38p
CENSUS-70-PHC(E)-04 Paper copy available from GPO $0.95.
COM-71-80018-04/WU PC-GPO/MF$2.25-NTIS

The report presents estimates of the completeness of coverage of the population of the United States in the United States in the 1970 Census, developed by the methods of demographic analysis. The text examines various methods for evaluating census data and discusses coverage of the total population. Four alternative sets of estimates of census errors by sex, race, and age are given, with a summary of principal findings. Selected aspects of the basic data and methodology are reviewed, including data on births, deaths, immigration, Medicare enrollment, sex ratios, and estimates generated by the Coale-Zelnik and Coale-Rives methods. Application of the results of the study to other populations is considered. Also included is an extensive discussion of the implications of the findings.

Census of Population and Housing: 1970. Evaluation and Research Program. The Medicare Record Check: An Evaluation of the Coverage of Persons 65 Years of Age and Over in the 1970 Census.
Bureau of the Census, Washington, D.C. Dec 73, 33p
CENSUS-70-PHC(E)-07 Paper copy available from GPO $0.80.
COM-71-80018-07/WU PC-GPO/MF$2.25-NTIS

The report presents data on the accuracy of the Census counts for persons 65 years of age and over, as well as data on the extent of age, sex, and race misclassification in the census for the elderly. The text explains the background to the record check study and describes the results of the study on missed rates and coverage errors. Misreporting and discrepancies between Census and Medicare records are discussed and the net effect of estimated errors and adjustments is considered. A separate chapter describes the methodology and limitations of record check data. The text is supplemented by tables showing estimated gross missed rates for persons 65 and over by age, race, sex, region, metropolitan and nonmetropolitan residence, and urban and rural residence. Other tables give estimates and indexes of age-reporting errors for elderly persons by age, race and sex.

Census of Population and Housing: 1970. Evaluation and Research Program. Coding Performance in the 1970 Census.
Bureau of the Census, Washington, D.C. Apr 74, 41p
CENSUS-70-PHC(E)-08 Paper copy available from GPO $1.05.
COM-71-80018-08/WU PC-GPO/MF$2.25-NTIS

The report discusses coding performance in three chapters on Evaluation of Coding Quality, Production and Quality Learning Curves, and Relationship Between Coder Performance and Test Scores. Estimates of coding error rates are given for the three coding operations: general, place of work, and industry and occupation. National estimates are shown for type of coding and for individual questions. Analysis of errors and the distribution of the degree of agreement of three coders in independently assigning codes are provided. Mathematical relationships between production rates and time for all three types of coding are presented. Simple and multiple correlations between production and quality and four test scores are also provided. Appendixes show the general and specific coding questions from the 1970 Census and discuss sample allocation, error rates and variances, and confidence limits for the range.

A Cost-Benefit Analysis of Housing Allowances.
G. S. Sahota.
Urban Observatory of Metropolitan Nashville-Univ. Centers, Tenn. Feb 74, 204p UO-LCCM-NASH-74-014
PB-234 929/8WU PC$13.25/MF$2.25

The study presents an analysis of three forms of housing allowances; the income-based plan, the rent- or mortgage-based assistance plan, and the housing-based plan. Costs of each plan are estimated and evaluated as are the benefits accrued. The cost-benefit analysis measures social costs, merit costs, and private costs. The study evaluates housing allowances in the context of the Nashville metropolitan area, however, most of the data is national in scope and applicability.

Homeseekers' Guides: An Innovative Approach to Housing Opportunities.
George Grier.
Washington Center for Metropolitan Studies, D.C. Jun 74, 62p
PB-235 508/9WU PC$6.25/MF$2.25

The publiction chronicles the development of the Washington Center's Housing Opportunities Project which included the pioneering series of Homeseekers' Guides to major suburban jurisdictions of the Washington metropolitan area. The Guides were conceived as a consumer-use document that would help 'equalize the odds' for minority homeseekers by providing them with greatly improved knowledge regarding the housing supply. Other activities covered in the report are an action-research project on bias in newspaper real estate advertising and a campaign to reform the policies and practices of federal agencies with regard to relocation of facilities to suburban areas.

Subsidized Multi-Family Rental Housing in the Boston Metropolitan Area.
Boston Urban Observatory, Mass. Oct 73, 308p UO-LCCM-BOS-73-010
PB-235 512/1WU PC$18.50/MF$2.25

By examining a representative number of subsidized housing developments in the Boston area, the study sought to determine: (1) The extent of financial trouble in Boston's subsidized projects; (2) the nature and connection of management-tenant relations to financial condition; (3) who is being served and how well; (4) who is responsible for financial difficulties when they occur; and (5) whether HUD efforts to remedy problems are sufficient to avoid past problems. Key findings include: (1) There are widespread financial and management/tenant difficulties, but these have not led to abandonment or demolition; and (2) many problems in such projects are attributable to decisions made during the development process.

HEALTH SERVICES

Effect of MEDICAID on Health Care of Low-Income Persons. Schedules and Codes.
Regina Lowenstein.
Columbia Univ., New York. School of Public Health and Administrative Medicine. 1969, 198p DHEW/DF-73/010a
PB-234 586/6WU PC$13.00/MF$2.25

Survey questions include ones designed to ascertain sources and kinds of health care utilization patterns, attitudes and knowledge about health, health care services, and sources of care, knowledge about and use of free health care services, including MEDICAID, and extent of out-of-pocket expenditures for health care services. Data have been collected from a national sample of 5,382 low income families covering 15,405 individuals living in low income enumeration districts. The survey was conducted between November 1968 and June 1969. Responses are not representative of all poor families in the United States, but only those poor families living in low income enumeration districts of the United States. All release of data in these files must be in accordance with the confidentiality requirements as set forth in the enabling legislation.

Effect of MEDICAID on Health Care of Low-Income Persons.
Regina Lowenstein.
Social and Rehabilitation Service, Washington, D.C. Office of Research and Demonstration Grants. 1969, 1 reel mag tape DHEW/DF-73/010 Specify tape recording made desired: 7 track, 556 and 800bpi, odd and even parity; or 9 track 800 bpi, Ebcdic, odd parity. Price includes documentation, PB-234 586.
PB-234 587/4WU Mag Tape $125.00;Foreign $157.50

Survey questions include ones designed to ascertain sources and kinds of health care utilization patterns, attitudes and knowledge and health, health care services, and sources of care, knowledge about the use of free health care services, including Medicaid, and extant of out-of-pocket expenditures for healthcare services. Data have been collected from a national sample of 5,382 low income families covering 15,405 individuals living in low income enumeration districts. The survey was conducted between November 1968 and June 1969. The magnetic tape contains 12 files with standard IBM header and trailer records. There are 36 tape marks through out the tape separating these files.

URBAN ADMINISTRATION AND PLANNING

Citizens Speak. A Survey of Citizen Attitudes in Baltimore.
W. William Nicholsonne, III, and Ralph G. Horton, Jr.
Baltimore Urban Observatory, Inc., Md. Dec 73, 226p UO-LCCM-BAL-72-004
PB-234 848/0WU PC$14.50/MF$2.25

The report presents the results of Baltimore's participation in a national Urban Observatory citizen attitude study. Five hundred households in Baltimore city were interviewed about schools, housing, transportation, law and order, and taxes and services. An appendix to the study analyzes the results of a supplementary local survey exploring citizen attitudes toward specific local government questions. A second appendix compares Baltimore answers with answers in other Observatory cities.

Seattle Model Neighborhood Planning Project.
Washington State Dept. of Public Assistance, Olympia. Jul 72, 131p SRS-11-57027-001
PB-235 618/6WU PC$9.75/MF$2.25

A project (1968-1972) to determine the effectiveness of coordinating the efforts of the Washington State Department of Social and Health Services with the Seattle model neighborhood program in planning social welfare programs found that the planning process was successful in establishing a number of service and organization projects and that effective program planning required citizen involvement and a signoff process for effective planning between two institutions. Participation on a welfare task committee was open to any model neighborhood resident.

URBAN-REGIONAL RELATIONSHIPS

Industrial-Aid Bonds as a Source of Capital for Developing Regions.
Olin S. Pugh.
South Carolina Univ., Columbia. Bureau of Business and Economic Research. May 71, 92p Essays in Economics-23, EDA/OER-73-109
COM-74-11373/9WU PC$7.75/MF$2.25

The primary purposes of the study are to determine the principal investors in the market for industrial-aid bonds and to ascertain the degree to which the operation of this market has contributed to the flow of funds to relatively underdeveloped areas of the United States. No one had conducted a significant study of this market until this project was undertaken. This study indicates that market for industrial-aid bonds is national in scope and that these bonds have served as an important investment vehicle for channeling funds to the relatively un-

derdeveloped areas of the nation. The essay should be a valuable source document for potential issuers of, and investors in, industrial development bonds.

Financial Planning for the Texas Port System.
Wayne E. Etter, and Robert C. Graham.
Texas A and M Univ., College Station. Dept. of Finance.
Mar 74, 85p TAMU-SG-74-210, NOAA-74071706
COM-74-11429/9WU PC$4.00/MF$2.25

The purpose of the study is to evaluate the ability of seven Texas ports to secure sufficient funds to finance their needed capital improvements and to consider alternatives if they cannot. To establish the precise legal nature of the Texas ports, their development as local governmental entities is related in Chapter II. The principal legal powers possessed by the navigation districts which operate the ports are also described. Financial projections for the Texas ports through 1990 are presented in Chapter III. Also included are a statement of the projection methodology, the principal findings of the projections and the use of debt by the ports. In Chapter IV the possibility of state support for the Texas ports is considered. This chapter includes a section on the rationale of state support and the identification of some areas of concern for Texas in this matter.

Making Federalism Work. A Study of Program Coordination at the Community Level.
James L. Sundquist, and David W. Davis.
Brookings Institution, Washington, D.C. Feb 69, 353p
EDA/OER-73-132
COM-74-11444/8WU PC$20.75/MF$2.25

The study examines the problems of coordination experienced by regional, state and local community agencies in their efforts to cooperate in the implementation of several federal programs legislated during the 1960's for the purpose of assisting community economic planning and development. This review was initiated to provide a factual basis for introducing or incorporating legislative requirements in federal programs that assume that local government can realize the fullest possible measure of benefit from grant-in-aid programs. The information base is developed by extensive interrogation of public officials. The review examines programs for rural areas, urban areas, model cities, multi-county and multi-state regions.

Plan for Civilian Reuse of Surplus Property at Westover. A Report to the City of Chicopee, Massachusetts and the Town of Ludlow, Massachusetts.
Wolf and Co., New York. May 74, 111p EDA-74-006
COM-74-11458/8WU PC$8.75/MF$2.25

The immediate goal of the typical base reuse plan is to attract employers to fill the job and income gap that may have been created by realignment of the base. The prime desired end-product of industrial reuse of the surplus properties is new jobs. Report states that proper civilian reuse of surplus property at Westover can satisfy other regional requirements, such as education and health facilities, and recreational and wildlife conservation areas. The report contains a bibliography.

A Study of Economic Change in Two South Carolina Coastal Counties: Georgetown and Horry.
J. Michael Marr.
South Carolina Univ., Columbia. Bureau of Business and Economic Research. May 74, 127p Occasional studies-5, USC-SG-74-1, NOAA-74072902
COM-74-50732/8WU MF$2.25

A study was prepared to estimate the respective impacts of the sea and the areas adjacent to the sea upon the economies of two adjoining coastal counties in South Carolina; (2) to project these economic impacts to the year 1980; and (3) to identify the industries through which these impacts are channeled to the economies of the two counties. The report chapter presents general socioeconomic and geographical data, and the basic economic structure of the counties. A regional growth theory is applied to these structures. The third chapter associates the sea and coastal zones to the counties, and the fourth capter presents economic projections to the year 1980. A summary and conclusions follow.

Alternative Methods for Financing Public Services: The Cases of Education and Welfare.
L. Kenneth Hubbell, Gerald W. Olson, John O. Ward, and Samuel D. Ramenofsky.
Mid-America Urban Observatory, Kansas City, Mo. Aug 73, 32p UO-LCCM-KC-73-006-2
PB-234 744/1WU PC$4.75/MF$2.25

The study evaluates the tax burden changes that occur as two local service functions, welfare and education, are shifted to state government financing. An analysis of alternative methods of such financing is undertaken and the effects of these methods upon the residents of the two central cities of the Kansas City standard metropolitan statistical area are examined. Findings and recommendations resulting from this analysis and examination may be helpful in making other difficult policy decisions concerning public services and the sources of revenue used to support them.

Alternative Methods for Financing Public Services: The Cases of Education and Welfare.
Gerald W. Olson, John O. Ward, and Samuel D. Ramenofsky.
Mid-America Urban Observatory, Kansas City, Mo. Aug 73, 183p UO-LCCM-KC-73-006-1
PB-234 745/8WU PC$12.25/MF$2.25

The document evaluates the tax burden changes that occur as selected local service functions are shifted to state government. The primary emphasis is upon the analysis of alternative methods of financing welfare and education and the impact of these alternative systems upon the residents of the two central cities of the SMSA, Kansas City, Missouri, and Kansas City, Kansas.

Media and Local Government: A San Francisco Bay Area Survey.
Forrest Wartham.
Association of Bay Area Governments, Berkeley, Calif. Oct 73, 29p ABAG-1010-1.4-2
PB-234 794/6WU PC$3.25/MF$2.25

The report summarizes the results of a survey conducted among departments of Bay Area cities and counties, and among special districts, covering their present use of media for staff training, internal documentation, and public information purposes. The survey covered the use of slides, film, audiotape, videotape, broadcast radio and television, cable television, and news releases. Slides and film stand out as the most frequently used media, and police and sheriff depart-

ments stand out as the heaviest users of all types of media, especially videotape. The report includes tables cross-referencing specific media to the departments of local government that produce and consume them, as well as a summary of discussion from an all-day workshop that followed the media survey.

—Highlight—

How to Implement Open Space Plans for the San Francisco Bay Area. Volume I. A Summary of Implementation Programs and a Proposal for Governmental Organization.
Frank Broadhead, and Roselyn Rosenfeld.
Association of Bay Area Governments, Berkeley, Calif. Jun 73, 174p ABAG-1010-1.3-Vol-1 Paper copy also available in set of 3 reports as PB-234 800-SET, PC$12.00.
PB-234 801/9WU PC$5.00/MF$2.25

The document is Volume 1 of a three-part report to the Association of Bay Area Governments. The report examines methods for the implementation of Open Space Plans. It examines how local governments may use their constitutional police powers to regulate land use, it investigates when acquisition is required, and it looks at taxation policies affecting open space. The report also contains a proposal for a regional open space agency, and discusses the desired roles of existing public agencies. The report is published in three volumes, as follows: Vol. 1. A Summary of Implementation Programs and a Proposal for Regional Organization; Vol. 2. Regulation to Conserve Open Space; Vol. 3. Acquisition, Taxation, and Utility Regulation Affecting Open Space.

How to Implement Open Space Plans in the San Francisco Bay Area. Volume II. Regulation to Conserve Open Space.
Frank Broadhead, and Roselyn Rosenfeld.
Association of Bay Area Governments, Berkeley, Calif. Jun 73, 162p ABAG-1010-1.3-Vol-2 Paper copy also available in set of 3 reports as PB-234 800-SET, PC$12.00.
PB-234 802/7WU PC$5.00/MF$2.25

The document is Volume II of a three-part report to the Association of Bay Area Governments. The report examines methods for the implementation of open space plans. It examines how local governments may use their constitutional police powers to regulate land use. Constitutional limitations on regulations are discussed.

How to Implement Open Space Plans in the San Francisco Bay Area. Volume III. Acquisition, Taxation, and Utility Regulation Affecting Open Space.
Frank Broadhead, and Roselyn Rosenfeld.
Association of Bay Area Governments, Berkeley, Calif. Jun 73, 148p ABAG-1010-1.3-Vol-3 Paper copy also available in set of 3 reports as PB-234 800-SET, PC$12.00.
PB-234 803/5WU PC$4.75/MF$2.25

The document is Volume III of a three-part report to the Association of Bay Area Governments. The report examines methods for the implementation of open space plans. Acquisition, taxation, and utility regulation affecting open space are discussed in detail.

ECONOMIC PLANNING

Census of Population and Housing: 1970. Procedural History. Advance Issuance of Chapters 9 and 10.
Bureau of the Census, Washington, D.C. Mar 74, 70p
COM-71-80014-1D/WU PC-GPO/MF$2.25-NTIS

For bibliographic citation see HOUSING PLANNING AND CONSTRUCTION

Census of Population and Housing: 1970. Evaluation and Research Program. Estimates of Coverage of Population by Sex, Race, and Age: Demographic Analysis.
Bureau of the Census, Washington, D.C. Feb 74, 38p
COM-71-80018-04/WU PC-GPO/MF$2.25-NTIS

For bibliographic citation see HOUSING PLANNING AND CONSTRUCTION

Census of Population and Housing: 1970. Evaluation and Research Program. The Medicare Record Check: An Evaluation of the Coverage of Persons 65 Years of Age and Over in the 1970 Census.
Bureau of the Census, Washington, D.C. Dec 73, 33p
COM-71-80018-07/WU PC-GPO/MF$2.25-NTIS

For bibliographic citation see HOUSING PLANNING AND CONSTRUCTION

Census of Population and Housing: 1970. Evaluation and Research Program. Coding Performance in the 1970 Census.
Bureau of the Census, Washington, D.C. Apr 74, 41p
COM-71-80018-08/WU PC-GPO/MF$2.25-NTIS

For bibliographic citation see HOUSING PLANNING AND CONSTRUCTION

Current Population Reports. Population Characteristics. Social and Economic Characteristics of Students: October 1972.
Larry E. Suter.
Bureau of the Census, Washington, D.C. Feb 74, 69p P-20/260 Paper copy available from GPO $30.50/year including series P-20, P-23, P-25, P-26, P-27, P-28 (summaries only), P-60 and P-65, $1.30/copy.
COM-74-70004-260/WU PC-GPO

The report presents statistics for the United States on recent changes in rates of school participation by age, sex, marital status, race, and income, and changes in field of study of college students. Information is also presented for the first time on the enrollment status of persons 35 years old and over, and on the enrollment level of persons of Spanish origin. The figures shown in the report are for the civilian noninstitutional population and are based on results of the Current Population Survey conducted in October 1972 by the Bureau of the Census. Text tables and detailed tables provide data on the enrollment levels of the population cross-classified by data on age, race, sex, selected educational characteristics, and other selected data on age, race, sex, selected educational characteristics, and other selected socioeconomic characteristics.

Current Population Reports. Population Characteristics. Fertility Histories and Birth Expectations of American Women: June 1971.
Bureau of the Census, Washington, D.C. Apr 74, 153p P-

20/263 Paper copy available from GPO $30.50/year including series Pe20, P-23, P-25, P-26, P-27, P-28 (summaries only), P-60 and P-65; $3.10/copy.
COM-74-70004-263/WU PC-GPO

The report presents data on fertility histories, births, and birth expectations of American women for June 1971, with some selected data for earlier years. Data are based on the June 1971 Current Population Survey when a series of questions concerning marital history, fertility history, and expectations of future births was added to the survey and summary data from other surveys and summaries through 1973. Although the June 1971 survey antedates most of the dramatic decline in birth rates which has occurred in the last 3 years, some of the data collected do permit comparisons which shed some light on the changes which have taken place in the Nation's levels of reproduction up to the time of the survey. Detailed tables show data on: Birth cohorts, marriage cohorts, births in specified calendar years, interval between births, children ever born, fertility of remarriages, and birth expectations. Included are cross-classifications of data by selected socioeconomic characteristics and additional tables which provide other related statistics.

Current Population Reports. Population Characteristics. Fertility Expectations of American Women: June 1973.
Bureau of the Census, Washington, D.C. Jun 74, 67p P-20/265 Paper copy available from GPO $30.50/year including series P-20, P-23, P-25, P-26, P-27, P-28 (summaries only), P-60 and P-65; $1.20/copy.
COM-74-70004-265/WU PC-GPO

The report presents the results of the June 1973 survey of the fertility expectations of American married women. Women 14 to 39 years old who were married but not separated from their husbands at the time of the survey, were asked a series of questions regarding the number and timing of children they expected to have in the future. In addition, all women 14 to 59 years old who have ever been married were asked how many children they had ever had up to the time of the survey. Detailed tables present data on birth expectations and children ever born. These data are cross-classified by one or more of the following: Age, race and Spanish origin, residence, years of school completed, and selected socioeconomic characteristics. The text tables and charts give data on parentage of wives 14 to 39 years old who expect to have children during their lifetime, by years of school completed, additional births expected by wives 18 to 29 years old and other related data on birth expectations.

Current Population Reports. Federal-State Cooperative Program for Population Estimates. Estimates of the Population of Vermont Counties July 1, 1972 and 1973.
Bureau of the Census, Washington, D.C. Jan 74, 5p P-26/49 Paper copy available from GPO $30.50/year including Series P-20, P-23, P-25, P-26, P-27, P-28 (summaries only), P-60 and P-65. $0.25/copy.
COM-74-70079-49/WU PC-GPO

The report presents population estimates for the counties of Vermont.

Current Population Reports. Federal-State Cooperative Program for Population Estimates. Estimates of the Population of Arizona Counties and Metropolitan Areas: July 1, 1972 and 1973.
Bureau of the Census, Washington, D.C. Jan 74, 8p P-26/50 Paper copy available from GPO $30.50/year including Series P-20, P-23, P-25, P-26, P-27, P-28 (summaries only), P-60 and P-65. $0.25/copy.
COM-74-70079-50/WU PC-GPO

The report presents population estimates for the counties of Arizona and some metropolitan areas.

Current Population Reports, Federal-State Cooperative Program for Population Estimates. Estimates of the Population of Idaho Counties and Metropolitan Areas: July 1, 1972 and 1973.
Bureau of the Census, Washington, D.C. Jan 74, 8p P-26/51 Paper copy available from GPO $30.50/year including Series P-20, P-23, P-25, P-26, P-27, P-28 (summaries only), P-60 and P-65. $0.25/copy.
COM-74-70079-51/WU PC-GPO

The report presents population estimates for the counties of Idaho and for some metropolitan areas.

Current Population Reports. Federal-State Cooperative Program for Population Estimates. Estimates of the Population of New Hampshire Counties and Metropolitan Areas: July 1, 1972 and 1973.
Bureau of the Census, Washington D.C. Jan 74, 5p P-26/52 Paper copy available from GPO $30.50/year including Series P-20, P-23, P-25, P-26, P-27, P-28 (summaries only), P-60 and P-65. $0.25/copy.
COM-74-70079-52/WU PC-GPO

The report presents population estimates for the counties of New Hampshire and for some metropolitan areas.

Current Population Reports. Federal-State Cooperative Program for Population Estimates. Estimates of the Population of Montana Counties and Metropolitan Areas: July 1, 1972 and 1973.
Bureau of the Census, Washington D.C. Feb 74, 8p P-26/53 Paper copy available from GPO $30.50/year including Series P-20, P-23, P-25, P-26, P-27, P-28 (summaries only), P-60 and P-65. $0.25/copy.
COM-74-70079-53/WU PC-GPO

The report presents population estimates for the counties of Montana and for some of its metropolitan areas.

Current Population Reports. Federal-State Cooperative Program for Population Estimates. Estimates of the Population of Louisiana Parishes and Metropolitan Areas: July 1, 1972 and 1973.
Bureau of the Census, Washington D.C. Feb 74, 8p P-26/54 Paper copy available from GPO $30.50/year including Series P-20, P-23, P-25, P-26, P-27, P-28 (summaries only), P-60 and P-65. $0.25/copy.
COM-74-70079-54/WU PC-GPO

The report presents population estimates for the Louisiana Parishes and, Metropolitan areas.

Current Population Reports. Federal-State Cooperative Program for Population Estimates. Estimates of the Population of Utah Counties and Metropolitan Areas: July 1, 1972 and 1973.
Bureau of the Census, Washington D.C. Feb 74, 8p P-26/55

Paper copy available from GPO $30.50/year including Series P-20, P-23, P-25, P-26, P-27, P-28 (summaries only), P-60 and P-65. $0.25/copy.
COM-74-70079-55/WU PC-GPO

The report presents population estimates for the counties of Utah and some of its metropolitan areas.

Current Population Reports. Federal-State Cooperative Program for Population Estimates. Estimates of the Population of Hawaii Counties and Metropolitan Areas: July 1, 1972 and 1973.
Bureau of the Census, Washington, D.C. Feb 74, 8p P-26/56 Paper copy available from GPO $30.50/year including Series P-20, P-23, P-25, P-26, P-27, P-28 (summaries only), P-60 and P-65. $0.25/copy.
COM-74-70079-56/WU PC-GPO

The report presents population estimates for the counties of Hawaii and for the Honolulu metropolitan area.

Current Population Reports. Federal-State Cooperative Program for Population Estimates. Estimates of the Population of Delaware Counties and Metropolitan Areas: July 1, 1972 and 1973.
Bureau of the Census, Washington, D.C. Feb 74, 5p P-26/57 Paper copy available from GPO $30.50/year including Series P-20, P-23, P-25, P-26, P-27, P-28 (summaries only), P-60 and P-65. $0.25/copy.
COM-74-70079-57/WU PC-GPO

The report presents population estimates for the counties of Delaware and some of its metropolitan areas.

Current Population Reports. Federal-State Cooperative Program for Population Estimates. Estimates of the Population of Nebraska Counties and Metropolitan Areas: July 1, 1972 and 1973.
Bureau of the Census, Washington, D.C. Mar 74, 8p P-26/58 Paper copy available from GPO $30.50/year including Series P-20, P-23, P-25, P-26, P-27, P-28 (summaries only), P-60 and P-65. $0.25/copy.
COM-74-70079-58/WU PC-GPO

The report presents population estimates for the counties of Nebraska and for some of its metropolitan area.

Current Population Reports. Federal-State Cooperative Program for Population Estimates. Estimates of the Population of Maine Counties and Metropolitan Areas: July 1, 1972 and 1973.
Bureau of the Census, Washington, D.C. Mar 74, 8p P-26/59 Paper copy available from GPO $30.50/year including Series P-20, P-23, P-25, P-26, P-27, P-28 (summaries only), P-60 and P-65. $0.25/copy.
COM-74-70079-59/WU PC-GPO

The report presents population estimates for the counties of Maine and for some of its metropolitan areas.

Current Population Reports. Federal-State Cooperative Program for Population Estimates. Estimates of the Population of North Dakota Counties and Metropolitan Areas: July 1, 1972 and 1973.
Bureau of the Census, Washington, D.C. Mar 74, 8p P-26/60 Paper copy available from GPO $30.50/year including Series P-20, P-23, P-25, P-26, P-27, P-28 (summaries only), P-60 and P-65. $0.25/copy.
COM-74-70079-60/WU PC-GPO

The report presents population estimates for the counties of North Dakota and for some of its metropolitan areas.

Current Population Reports. Federal-State Cooperative Program for Population Estimates. Estimates of the Population of South Dakota Counties and Metropolitan Areas: July 1, 1972 and 1973.
Bureau of the Census, Washington, D.C. Mar 74, 8p P-26/61 Paper copy available from GPO $30.50/year including Series P-20, P-23, P-25, P-26, P-27, P-28 (summaries only), P-60 and P-65. $0.25/copy.
COM-74-70079-61/WU PC-GPO

The report presents population estimates for the counties of South Dakota and for some of its metropolitan areas.

Current Population Reports. Federal-State Cooperative Program for Population Estimates. Estimates of the Population of Colorado Counties and Metropolitan Areas: July 1, 1972 and 1973.
Bureau of the Census, Washington, D.C. Apr 74, 8p P-26/62 Paper copy available from GPO $30.50/year including Series P-20, P-23, P-25, P-26, P-27, P-28 (summaries only), P-60 and P-65. $0.25/copy.
COM-74-70079-62/WU PC-GPO

The report presents population estimates for the counties of Colorado and for some of its metropolitan areas.

Current Population Reports. Federal-State Cooperative Program for Population Estimates. Estimates of the Population of Oklahoma Counties and Metropolitan Areas: July 1, 1972 and 1973.
Bureau of the Census, Washington, D.C. Apr 74, 8p P-26/63 Paper copy available from GPO $30.50/year including Series P-20, P-23, P-25, P-26, P-27, P-28 (summaries only), P-60 and P-65. $0.25/copy.
COM-74-70079-63/WU PC-GPO

The report presents population estimates for the counties of Oklahoma and for some of its metropolitan areas.

Census of Manufactures: 1972 (Preliminary Report).
Bureau of the Census, Washington, D.C. 1974, 450 issues Paper copy available from Social and Economic Statistics Administration, Washington, D.C. 20233, $156.75/set of 450 reports, $0.35/copy.
COM-74-70100/WU (ENTIRE SET) Not available NTIS

The reports, issued for each of 450 manufacturing industries (or groups of industries), provide preliminary industry totals for quantity and value of products shipped, value added by manufacture, cost of materials, expenditures for new plant and equipment, and employment. Tables present U.S. industry totals for general statistics; geographic division and state industry totals for general statistics; quantity and value of individual products shipped; and quantity and cost of materials consumed by establishments in the industry. The data are presented for 1972 with comparable historical data. For individual reports, see below:

MC72(P)-23E-7. Schiffli Machine Embroideries, SIC 2397, Dec 73, 7p

MC72(P)-23E-8. Fabricated Textile Products, N.E.C., SIC 2399, Mar 74, 7p
MC72(P)-22F-2. Lace goods, SIC 2292, Jan 74, 7p
MC72(P)-22F-3. Paddings and Upholstery Filling, SIC 2293, Jan 74, 5p
C72(P)-22F-4. Processed Textile Waste, SIC 2294, Jan 74, 7p
MC72(P)-22F-6. Tire Cord and Fabric, SIC 2296, Nov 73, 7p
MC72(P)-22F7. Nonwoven Fabrics, SIC 2297, Mar 74, 7p
MC72(P)-22F-8. Cordage and Twine, SIC 2298, Jan 74, 7p
MC72(P)-22F-9. Textile Goods, N.E.C., SIC 2299, Mar 74, 7p
MC72(P)-23A-1. Men's and Boys' Suits and Coats, SIC 2311, Mar 74, 11p
MC72(P)-23A-2. Men's and Boys' Shirts and Nightwear, SIC 2321, Mar 74, 11p
MC72(P)-23A-3. Men's and Boys' Underwear, SIC 2322, Jan 74, 7p
MC72(P)-23C-1. Women's and Children's Underwear, SIC 2341, Jan 74, 11p
MC72(P)-23C-3. Millinery, SIC 2351, Feb 74, 7p
MC72(P)-23C-4. Hats and Caps, Except Millinery, SIC 2352, Jan 74, 7p
MC72(P)-23C-5. Children's Dresses and Blouses, SIC 2361, Mar 74, 7p
MC72(P)-23C-6. Children's Coats and Suits, SIC 2362, Mar 74, 7p
MC72(P)-23C-7. Children's Outerwear, N.E.C., SIC 2369, Mar 74, 7p
MC72(P)-23D-7. Apparel and Accessories, N.E.C., SIC 2389, Jan 74, 7p
MC72(P)-23E-3. Textile Bags, SIC 2393, Jan 74, 7p
MC72(P)-24A-1. Logging Camps and Logging Contractors, SIC 2411, Mar 74, 7p
MC72(P)-24A-2. Sawmills and Planing Mills, General, SIC 2421, Mar 74, 10p
MC72(P)-24A-3. Hardwood Dimension and Flooring, SIC 2426, Mar 74, 7p
MC72(P)-24A-4. Special Product Sawmills, N.E.C., SIC 2429, Dec 73, 7p
MC72(P)-24B-1. Millwork, SIC 2431, Mar 74, 7p
MC72(P)-24B-2. Wood Kitchen Cabinets, SIC 2434, Feb 74, 7p
MC72(P)-24B-3. Hardwood Veneer and Plywood, SIC 2435, Jan 74, 7p
MC72(P)-24B-4. Softwood Veneer and Plywood, SIC 2436, Jan 74, 7p
MC72(P)-24C-1. Nailed Wood Boxes and Shook, SIC 2441, Jan 74, 10p
MC72(P)-24C-2. Wood Pallets and Skids, SIC 2448, Jan 74, 7p
MC72(P)-24C-3. Wood Containers, N.E.C., SIC 2449, Feb 74, 10p
MC72(P)-24C-4. Wood Preserving, SIC 2491, Nov 73, 7p
MC72(P)-24C-5. Particleboard, SIC 2492, Mar 74, 7p
MC72(P)-24C-6. Wood Products, N.E.C., SIC 2499, Mar 74, 7p
MC72(P)-24D-1. Mobile Homes, SIC 2451, Mar 74, 7p
MC72(P)-24D-2. Prefabricated Wood Buildings, SIC 2452, Mar 74, 7p
MC72(P)-25A-1. Wood Household Furniture, SIC 2511, Feb 74, 10p
MC72(P)-25A-2. Upholstered Household Furniture, SIC 2512, Mar 74, 7p
MC72(P)-25A-3. Metal Household Furniture, SIC 2514, Mar 74, 7p
MC72(P)-25A-4. Mattresses and Bedsprings, SIC 2515, Feb 74, 10p
MC72(P)-25A-5. Wood TV and Radio Cabinets, SIC 2517, Feb 74, 7p
MC72(P)-25A-6. Household Furniture, N.E.C., SIC 2519, Mar 74, 7p
MC72(P)-25B-1. Wood Office Furniture, SIC 2521, Dec 73, 7p
MC72(P)-25B-2. Metal Office Furniture, SIC 2522, Dec 73, 7p
MC72(P)-25B-3. Public Building and Related Furniture, SIC 2531, Mar 74, 10p
MC72(P)-25B-4. Wood Partitions and Fixtures, SIC 2541, Feb 74, 10p
MC72(P)-25B-5. Metal Partitions and Fixtures, SIC 2542, Feb 74, 10p
MC72(P)-24B-5. Structural Wood Members, N.E.C., SIC 2439, Mar 74, 7p
MC72(P)-25B-6. Drapery Hardware and Blinds and Shades, SIC 2591, Mar 74, 7p
MC72(P)-25B-7. Furniture and Fixtures, N.E.C., SIC 2599, Mar 74, 7p
MC72(P)-26A-1. Pulpmills, SIC 2611, Feb 74, 7p
MC72(P)-26A-2. Papermills, Except Building Paper, SIC 2621, Mar 74, 11p
MC72(P)-26A-3. Paperboard Mills, SIC 2631, Mar 74, 10p
MC72(P)-26A-4. Building Paper and Board Mills, SIC 2661, Mar 74, 7p
MC72(P)-26B-1. Paper Coating and Glazing, SIC 2641, Mar 74, 10p
MC72(P)-26B-2. Envelopes, SIC 2642, Nov 73, 7p
MC72(P)-26B-3. Bags, Except Textile Bags, SIC 2643, Mar 74, 10p
MC72(P)-26B-4. Die-Cut Paper and Board, SIC 2645, Mar 74, 7p
MC72(P)-26B-5. Pressed and Molded Pulp Goods, SIC 2646, Mar 74, 7p

Perspectives on Manpower Planning for Kansas City.
Charles E. Krider, Robert D. De Baun, and Anthony L. Redwood.
Mid-America Urban Observatory, Kansas City, Mo. Aug 73, 143p UO-LCCM-KC-73-005
PB-234 740/9WU PC$10.25/MF$2.25

The intent is to provide a basis for manpower planning in Kansas City by developing a framework for policy formulation based on current labor market analysis, projections of labor market trends and problems, and program evaluations. The initial section presents basic background on policy goals for manpower programs in the city and the responsibilities of local elected officials under revenue sharing. The second section analyzes current labor market conditions in the Kansas City SMSA. The third offers some perspectives concerning the extent to which a comprehensive labor market information system must be developed to underpin local manpower planning. The next section considers the performance of current manpower programs and a methodology for evaluations. The fifth and final section summarizes policy recommendations.

Incidence and Other Fiscal Impacts of the Reform of Educational Finance: A Case Study of Baltimore.

William H. Oakland.
Baltimore Urban Observatory, Inc., Md. Apr 74, 282p UO-LCCM-BAL-74-007
PB-234 918/1WU PC$17.25/MF$2.25

The study examines the consequences of alternative financing arrangements for secondary and elementary education. There is an analysis of the characteristics of the present system of state aid. The study evaluates the incidence of major state and local taxes and than determines the distributional consequences of shifting from local to state financing. Lastly, it discusses the jurisdictional and distributional impact of various reforms ending with a set of recommendations for educational financing.

Analysis of Employment Trends and Key Industries in Kansas City, Missouri, and Kansas City, Kansas.
Samuel D. Ramenofsky, Gerald W. Olson, and Louis P. Cain.
Mid-America Urban Observatory, Kansas City, Mo. Jun 74, 213p UO-LCCM-KC-74-012-1
PB-235 109/6WU PC$13.75/MF$2.25

The report is a socio-economic analysis of employment trends and key industries in the Kansas City SMSA. It is meant to provide an examination of the local economy with particular emphasis upon industries susceptible to local influence. The report begins with an historical account of the social and economic characteristics of the Kansas City SMSA. It then presents a shift-share analysis of population trends and identifies the key industries. A model was constructed and used to measure the impact of a central city budget on an increase in employment of the key industries. The report then discusses the policy variables with respect to the key industries and how the local government can stimulate expansion of these industries.

GENERAL

A Data Processing Feasibility Study of a Cooperative Computer Facility.
Robert Keston.
Kirkwood City Office of Governmental Services, Mo. Jan 74, 79p USCSC-73-MO-01C-37
PB-233 062/9WU PC$4.00/MF$2.25

The study examines: (1) Extent of commonality of ADP requirements of nine municipalities ranging in population from 7,000 to 68,000 to test feasibility of sharing equipment, software, and staff. (2) Extent to which the individual jurisdictions' current commitments to present arrangements are compatible with a joint effort. (3) Extent to which physical and locational problems would inhibit effective service to all in a cooperative arrangement. (4) The size and costs (installation and operation) of a system to meet all needs. (5) What is the best and most cost-effective means for the nine jurisidictions, individually or collectively, to meet their needs for computing services.

Current & Recommended

Ambulatory Health Care Services Review Manual, Albert Einstein College of Medicine, Bronx, N.Y., 1973. 192 pp. PC $5.25/MF $1.45 ..... **Order PB-226-783/G.**

Evaluation of the Impact of Community Mental Health Center Consultation Services on School Systems, Behavior Science Corp., Los Angeles, Calif., 1973. 361 pp. PC $10/MF not available.
Order PB-225-772-SET/G.
Three reports discuss extent and nature of school case-oriented and program consultation as currently practiced, local consultee's, and consultant's expectations of consultation, degree of attainment, and problems experienced in developing programs.

The Delivery of Health Care with Special Emphasis on Utilization Review, George Washington Univ., Washington, D.C., 1971. 126 pp. PC $4.50/MF $1.45 ..... **Order PB-225-136/G.**
Reviews literature on methods of quality control, especially development of criteria and techniques for utilization review.

The New Grass Roots Government? Decentralization and Citizen Participation in Urban Areas. Advisory Commission on Intergovernmental Relations, Washington, D.C., 1972. 28 pp. PC $3/MF $1.45 ..... **Order PB-224-939/G.**
Analyzes various types of decentralization and citizen participation approaches; examines the degree to which they have been adopted by jurisdictions with different size, locational, and governmental characteristics; and probes official evaluations of decentralization/citizen participation experience.

Promoting Environmental Quality through Urban Planning and Controls, Univ. of North Carolina, Chapel Hill, 1973. 467 pp. PC $9.25/MF $1.45 ..... **Order PB-227-090/G.**
Reviews urban planning in the 1960's and discusses promising approaches to the water resources-land use interface; urban design and controls and residuals management (noise and air quality).

Computer Utilization in Local Governments: A Critical Review and Synthesis of Research, Univ. of Calif., Irvine, 1973. 192 pp. PC $5.50/MF $1.45 ..... **Order PB-227-266/G.**

A Design Guide for Road Traffic Noise, National Swedish Inst. for Building Research, Stockhold, Sweden, 1973. 47 pp. PC $3.25/MF $1.45 ..... **Order PB-227-258/G.**
Describes a method for calculating road traffic noise based on the equivalent steady level as the measure of disturbance.

Transportation Noise: Impacts and Analysis Techniques, Argonne National Labs., Argonne, Ill., 1973. 124 pp. PC $4.25/MF $1.45.
Order PB-226-806/G.
Presents background information and describes computerized models for transportation engineers, planners, and environmentalists to assess impacts of transportation noise generated by highways and airports. Includes a user's manual.

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Shot Peening for Improved Fatigue Properties and Stress-Corrosion—Contains a summary of current peening procedures, methods of control, and improvements that can be achieved by these procedures. From its 55 data-filled pages you will learn . . .

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1971. PC $7.50/MF $7.50 order AD–735–409/G

Effects of Surface Conditions on the Mechanical Properties of Titanium and Its Alloys—This report on nonferrous metallurgy concisely describes, summarizes, and analyzes over 80 relevant research programs for you. It covers:

- Fatigue strength, textile strength and ductility, and bend ductility.
- Surface contamination from oxygen and carbon from organic sources.
- Hydrogen from pickling and metallic contaminants from brazing alloys.
- Surface modifications imposed intentionally. Nitrogen, oxygen surface hardening. Anodizing. Preparation of metal-enriched surfaces by coating, diffusion treatment.
- Coatings with metal or ceramics.
- Mechanical treatments such as shot peening, machining.

1971. 73 pp. PC $7.50/MF $7.50 order AD–732–248/G

Damage Tolerant Design Handbook—A compilation of fracture and crack-growth data for high-strength alloys. A comprehensive source of all fracture mechanics data for . . . high-strength aluminum alloys . . . alloy steels . . . stainless steels . . . titanium alloys. Covers:

- plane-strain fracture toughness data (K_{Ic} values)
- plane-stress and transitional fracture toughness data (K_c values)
- Threshold stress intensity in corrosive or embrittling environments (K_{Iscc} values)
- sustained-load crack-growth rate in corrosive or embrittling environments (da/dN vs K_I)
- fatigue crack growth rate (da/dN vs Δ K)

Plus—special section on comparison of alloys by fracture mechanics properties, 206 references and appendix covering testing methods and conditions, code for data sheets, abbreviations, and symbols.

1972. 431 pp. PC $37.50/MF $37.50 order AD–753–774/G

Symposium on Electrodeposited Metals as Materials for Selected Applications—This comprehensive collection offers information on:

- The physical properties of the precious metals
- Properties of electrodeposited foils for use in printed circuits
- Properties of electroless cobalt and recording technology
- Strength and ductility of electroformed nickel
- Nickel electroforming applications—why they exist
- Mechanical properties of electrodeposited lead and lead alloys
- Maintaining structural integrity of aerospace components
- Electroplate property specifications for metal fasteners
- Joining aluminum to stainless steel by electroplating

1972. 131 pp. PC $7.50/MF $7.50 order AD–738–272/G

Bibliography on Fibers and Composite Materials—1969-1972—Here's a good place to check what's been done in the field before initiating any research work. More than 3,000 references are included—even translated items from Japan, West Germany, U.S.S.R., and other nations. Arrangement of the references by subject makes identification of key publications on a given composites-related subject quite simple. If your field of interest is in aerospace, construction, materials development and manufacturing or building materials, you'll want to add this bibliography to your reference bookshelf.

1972. 103 pp. PC $8.50/MF $8.50 order AD–746–214/G

Titanium Alloys Handbook—Describes titanium alloys in terms of their physical metallurgy, processing technologies, and typical and design-engineering mechanical properties, and gives the availability of various product forms in terms of typical suppliers, dimensions, and expected tolerances.

1972. 644 pp. PC $35/MF $35 order AD–758–335/G

Advances in Joining Technology—The '60's and Beyond—Tells how you can put advances in welding technology to work for you. A survey of the most significant advancements in welding technology since 1960. Describes both new welding techniques and recent improvements in established welding methods.

1973. 68 pp. PC $12.95/MF $12.95 order AD–754–262/G

Superalloys—Processing—Contains more than 500 pages of information on the processing of superalloys. Gives you the full texts of the 28 papers presented at the Second International Conference on Superalloys—Processing. Highlighted in this well-illustrated volume:

- Electroslag remelting
- Investment casting
- Primary hot working
- Thermomechanical processing
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1972. PC $21.95/MF $21.95 order AD–748–159/G

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Transportation for the Elderly and the Handicapped, Mark Battle & Assoc., 1973. 185 pp. PC $5.25/MF $1.45.
Order PB-225-285/G.
Identifies major constraints of the elderly and handicapped on the use of mass transit, including physical and psychological limitations, transportation costs, travel needs, information needs and other problems.

Legal and Institutional Analysis of Aircraft and Airport Noise and Apportionment of Authority between Federal, State and Local Governments, Environmental Protection Agency, Arlington, Va., 1973. 413 pp. PC $8.25/MF $1.45 ..... **Order PB-225-149/G.**
Describes existing legal and institutional structure as it relates to exposure of people to aircraft noise and gives criteria for the evaluation of legal and institutional arrangements.

Vandalism and Passenger Security: A Study of Crime and Vandalism on Urban Mass Transit Systems in the U.S. and Canada, American Transit Assoc., Washington, D.C., 1973. 432 pp. PC $9/MF $1.45 ..... **Order PB-226-854/G.**
Analyzes crime and vandalism and discusses approaches for dealing with the problem—including devices and procedures for protecting passengers and employees, deterring criminals and vandals, keeping them under surveillance and helping apprehend them.

Short-Range Transit Planning, Alan M. Voorhees & Assoc., Inc., McLean, Va., 1973. 191 pp. PC $4.65/MF $1.45
Order PB-226-482/G.
A guide for communities of less than one million residents to prepare urban transit development programs based on proven techniques.

Noise Facts Digest, Informatics, Inc., Rockville, Md., 1972. 206 pp. PC $5.75/MF $1.45 ..... **Order PB-228-345/G.**
Contains two general interest articles and about 200 abstracts of material selected from the most recent and significant of domestic and foreign literature. Provides substantive information relating to prevention, abatement and control of noise.

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Behavior & Society

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Highlights

ORGANIZATIONAL PSYCHOLOGY

The Self Concept and Behavior: Overview and Supplement. Reviews a five-year research program which began with the formulation of the Tennessee Self Concept Scale and continued with results of administering the test to various groups.

SOCIAL CONCERNS

Open Space and Recreation Opportunity in America's Inner Cities. Presents an analysis of open space areas in large cities for the purpose of setting guidelines for recreational development of the areas.

Alcohol Public Education Literature-Alcohol Countermeasures Literature Review. Discusses published information on alcoholism, its effects on all aspects of life, and prevention, cure, and other methods of dealing with the problem.

Five Thousand American Families: Patterns of Economic Progress, Volume I: An Analysis of the First Five Years of the Panel Study of Income Dynamics. Follows the socioeconomic histories of five thousand U.S. families for a period of over five years, examining economic changes and discussing causes therefor.

New Careers and Agencies: Views from the Top. Working Paper No. 3. Rehabilitation Occupations for the Disadvantaged and Advantaged. A Program of Research on Occupations and Professions in the Field of Rehabilitation. Discusses programs for training Welfare clients as paraprofessionals in the rehabilitation agencies and the success of the programs in one city.

Parole Decision-Making: Supplemental Report One. Development of a Data Base for Parole Decision-Making. Discusses the development of an information collection system for parole systems that may be used in conjunction with modern information retrieval techniques.

EDUCATION, LAW, AND HUMANITIES

Women, Work, and the Law--A Legislative Review. Reviews the most significant legislation affecting the status of employed women in America, including general, educational, and public service activities.

JOB TRAINING AND CAREER DEVELOPMENT

Comparative Job Attributes of Airmen and Civil Service Personnel Having Similar Job ypes.
Andrew T. Garza, and James B. Carpenter.
Air Force Human Resources Lab Brooks AFB Tex May 74, 17p AFHRL-TR-74-45
AD-786 407/7WS PC$3.25/MF$2.25

Military and civil service personnel having similar job types and from comparable accounting and finance career ladders were compared on several attributes. The data reveal certain distinct differences between the two populations with the magnitude of the differences being highly variable as functions of specific job types considered. (Modified author abstract)

Across-Time Prediction of the Performance of Airman Administrators and Mechanics.
Llewellyn N. Wiley.
Air Force Human Resources Lab Brooks AFB Tex Jul 74, 27p AFHRL-TR-74-53
AD-786 409/3WS PC$3.75/MF$2.25

The study is concerned with the reliability and validity of supervisor ratings made on airmen in two career ladders, the Administration Specialist (702X0/70490) and the Aircraft Mechanic (431X1/43190). The purpose of the study was to determine if either overall performance ratings or trait ratings are predictive over a considerable lapse of time, preferably over an interval which would embrace a change in the airman's supervisor.

Human Investment Decisions, Labor Market Choice, and Unemployment.
Gary S. Fields, and James R. Hosek.
Rand Corp Santa Monica Calif Nov 73, 35p P-5144
AD-786 640/3WS PC$3.75/MF$2.25

The purpose of this paper is to extend human investment analysis to a world in which unemployment arises stochastically. The research has been motivated by an interest in such diverse phenomena as migration, occupational choice, job search, and investment in market skills in relation to unemployment. Existing analyses have failed to construct a unified framework to deal with the likelihood of unemployment and re-unemployment, on-the-job search, interoccupational career mobility, and the returns to skill which accrue in the form of a higher change of being employed at a high wage job. The aim in this paper is to contribute to the development of such a framework.

Mass Transit Training Needs. Volume II. History and Methodology.
E. J. Thrasher, and P. Wood.
Mitre Corp., McLean, Va. Jun 74, 104p MTR-6681-Vol-2, UMTA-VA-06-0004-74-2 Paper copy also available in set of 5 reports as PB-235 999-SET, PC$17.00.
PB-236 001/4WS PC$5.25/MF$2.25

The report is the second volume of a five-volume series summarizing the findings, conclusions, and recommendations of a study of urban mass transit training needs. This volume describes the history and methodology of the program. Statistics relating to transit industry training are derived.

Mass Transit Training Needs. Volume V. Railcar Repairman Training Needs.
P. Wood.
Mitre Corp., McLean, Va. Aug 74, 53p MTR-6681-Vol-5, UMTA-VA-06-0004-74-5 Paper copy also available in set of 5 reports as PB-235 999-SET, PC$17.00.
PB-236 004/8WS PC$4.25/MF$2.25

The report is the fifth of a five-volume series summarizing the findings, conclusions, and recommendations of a study of urban mass transit training needs. This volume is devoted to the railcar repairman. About half of the training is generalized enough to allow a standardized training course to be developed. An outline of such a course, and sources of training material which would be included are presented. One conclusion is that because of the financial difficulties of the mass transit industry, it is recommended that implementation be delayed until funds become available to cover the costs of training.

A Chance to Get Ahead. Proficiency Examinations for Clinical Laboratory Personnel.
Jean D. Linehan.
National Committee for Careers in the Medical Lab., Bethesda, Md. 1 Jul 74, 55p DLMA-82-22-70-35-1
PB-236 178/0WS PC$4.25/MF$2.25

Four proficiency examinations for clinical laboratory personnel were developed in clinical chemistry, microbiology hematology and blood banking. Purpose of project was to enable competent military laboratory technicians who lack credentials to demonstrate their job-related skills and knowledge for civilian positions, and also to help civilians trained on the job to advance. The examinations were constructed by laboratory experts and administered to more than 4,000 persons at test centers across the country and military bases throughout the world. Normative data have been compiled. Test scores are used by employers to place and promote laboratory workers. Some credentialing agencies are using or considering use of the examinations. Special use of the tests, including evaluating needs for continuing education, are being developed.

Registered Nurse Education and the Registered Nurse Job Market.
H. Allan Hunt.
California Univ., Berkeley. Inst. of Industrial Relations. Sep 74, 236p DLMA-91-06-73-23-1
PB-236 182/2WS PC$7.50/MF$2.25

This effort compares the graduates of the three types of Registered Nurse (RN) education programs (three-year Diploma in Nursing, two-year Associate Degree in Nursing, and four-year Bachelor of Science Degree in Nursing). The basic objective is to determine whether they are perfect substitutes, especially whether ADN graduates can adequately replace Diploma graduates as the base of the profession. A response rate of about eighty percent was obtained with three mailings, yielding 942 employed RNs for the analysis. Conclusions are that ADN graduate and Diploma graduate RNs are indistinguishable; they are paid the same wage and their job distribution is the same when work experience is controlled. However, Diploma graduate RNs cannot substitute for BSN graduate RNs. They are paid similar wages when job area is controlled, but their distribution among job areas is markedly different.

The Determinants of Earnings of Man and Women in the United States.
Paula M. Hudis.
Michigan Univ., Ann Arbor. Dept. of Sociology. 25 Jun 74, 206p DLMA-91-26-73-19-1
PB-236 203/6WS PC$7.25/MF$2.25

The report examines the educational, occupational and labor force determinants of earnings of men and women in the United States. The data employed in the analysis are taken from the 1967 Survey of Economic Opportunity. Included in the sample used for the investigation are 11,827 respondents, selected to represent the U.S. population, aged 25 to 64 years old, who were in the labor force and at work in 1966, and who reported earnings for that year.

Career Development (Academic Careers and Post-College Employment of Young Men).
Herman P. Miller, and Stuart Garfunkle.
Temple Univ., Philadelphia, Pa. 25 Sep 74, 61p
DLMA/MPRM-21-42-74-10
PB-236 228/3WS PC$4.25/MF$2.25

The report describes the background, employment and educational experiences of a small randomly selected group of young men college students and recent graduates, who received degrees in or were studying in one of ten degree fields during the period 1966 to 1969. Because of the small number of cases and the many variables measured in the survey, the basic tool of analysis was the case study approach. Each respondent's annual interviews were received and generalizations made regarding the student's background, his occupational and educational goals, his post-college work experience, his degree specialty and other variables.

Report of a Conference on Apprenticeship Training and Suggestions for a Model Apprenticeship System for the 1970's (With Full Text of Papers).
Felician F. Foltman.
New York State School of Industrial and Labor Relations.
May 74, 269p DLMA-21-36-73-39-2
PB-236 231/7WS PC$8.50/MF$2.25

The report suggests that apprenticeship training serves an important function in the nation's total manpower training system. Most of the eighteen papers in this report agreed on this major conclusion. It was agreed, however, that specific changes should be made in order to make apprenticeship even more appropriate for future needs. The basic recommendation is that labor and management should continue to bear major responsibility for the conduct of the program with additional technical service support to be available from the Bureau of Apprenticeship and Training of the U.S. Department of Labor.

TIPP: Training Incentive Payments Program. One Year Report July 1, 1972-June 30, 1973.
Sumner M. Rosen.
Institute of Public Administration, New York. 30 Jun 73, 124p DLMA-82-34-69-44-5-Jun
PB-236 256/4WS PC$5.25/MF$2.25

An approach to providing effective assistance to employers in improving the upward mobility of their low-income workers has been developed and applied on an extensive scale with two employers - a large toy manufacturer, and a supermarket chain. The authors attempt to increase attention and focus on the problem by management, to link socially important results to the self-interest of the employer, and that of key management and supervisory people. These methods are being adapted and applied in new settings - a large bank, a data-processing company, an insurance company, and a large private university. The Touche Ross prototype for measuring costs and benefits of upgrading was completed and field-tested successfully.

Farming and Farm Labor: A Study in California.
Darryl D. Enos, and Paul Sultan.
Claremont Graduate School, Calif. Center for Urban and Regional Studies. 28 Jun 74, 207p DLMA-92-06-72-14-1
PB-236 311/7WS PC$7.25/MF$2.25

The study examines the occupational mobility of farm workers and, in particular, is directed to the job-absorption experiences of farm workers in the suburban area of Southern California. An attempt is made to determine the extent to which there has been penetration of the suburban and industrial labor market by farm workers. Included is an examination of rural poverty, farm labor force characteristics, and the farm system, as well as a review of the effectiveness of rural manpower programs. Selective interviews with farm and ex-farm workers, farm and non-farm employers, farm camp participants, and involved public officials provide the basis for conclusions supporting the assertion that rural manpower problems remain as intractable and serious as they were ten years ago. Specific public policy recommendations are presented.

The Development and Application of Intelligence Tests for the Blind: A Research Utilization Conference.
Georgia Univ., Athens. Aug 72, 53p
PB-236 486/7WS PC$4.25/MF$2.25

For bibliographic citation see ORGANIZATIONAL PSYCHOLOGY

Counselor Handbook, Occupational Information for Lubbock, Texas.
Texas Rehabilitation Commission, Lubbock. Research Utilization Section. 1971, 284p
PB-236 496/6WS PC$8.75/MF$2.25

The purpose of the survey is to report on the attitudes of employers and prepare job descriptions on jobs in Lubbock, Texas, as they relate to vocational rehabilitation clients. Approximately forty businesses in the Lubbock area were randomly selected. Detailed job descriptions were prepared on individual jobs within the companies surveyed. Two indices were prepared to facilitate utilization of the information. Details are discussed.

A Self-Help Program for One Parent Households.
Associates for Research, Philadelphia, Pa. May 71, 7p
PB-236 620/1WS PC$3.25/MF$2.25

For bibliographic citation see SOCIAL CONCERNS

Project Development of Research Utilization Program.
E. J. Buchanan.
Missouri State Dept. of Education, Jefferson City. Vocational Rehabilitation Agency. Aug 73, 72p
PB-236 621/9WS PC$4.25/MF$2.25

The reported demonstration project was one of nine similar projects working with research utilization concepts in a state vocational rehabilitation agency. In developing the project, the role and function of the research utilization specialist became a central issue. In the Missouri project, this issue was at least partially resolved through the medium of training meetings, appropriate research information was presented to the professional staff for thorough discussion. The research utilization specialist (change agent) is discussed regarding his role and function in the organizational structure.

A Guide to the Operation of a Basic and Clerical Skills Program for AFDC Trainees.
Associates for Research, Philadelphia, Pa. May 71, 75p
PB-236 709/2WS PC$4.25/MF$2.25

The guide is one of the outcomes of an experimental research and demonstration program to develop a system for training mothers on welfare in office skills leading to such positions as secretaries, clerk-typists, office machine operators, and similar jobs. The program was funded for two years (May 1, 1968 - April 30, 1970) by the Social and Rehabilitation Service of the Department of Health, Education, and Welfare. Trainees are women on welfare (men are eligible, but none have enrolled to date) who lack job skills and, in most cases, are high school dropouts; the only admission requirement Associates' program imposes is the achievement of a score on the California Achievement Test (CAT) equivalent to that of a beginning seventh grader. The curriculum is individualized for each student with the help of programmed instruction and self-instructional materials.

Evaluation and Inventory of Public Assistance Recipients.
Roberta C. Schumann, Lois M. Ayres, and Sally Hopkins.
Washington State Dept. of Social and Health Services, Olympia. 1972, 326p
PB-236 710/0WS PC$9.50/MF$2.25

The Evaluation and Inventory Project of Thurston County, in the state of Washington, was to inventory and evaluate for work potential, Public Assistance recipients. The Project was interested in evaluating those recipients not currently participating in any work or training programs. Thus, clients were drawn from the Aid to Families with Dependent Children, Disability Assistance, and General Assistance - Unemployable population who had not been referred or who had been rejected or who had failed prior training or work experience. Service delivery methods that assisted clients were also examined in the course of the Project evaluation process. The Project utilized the multi-disciplinary team approach, group work, evaluation techniques, joint interviews, vocational counselor and social worker service, research with experiment and control groups, and the innovative use of rehabilitation funds.

A Program of State-Wide Vocational Rehabilitation Services for the Mentally Retarded.
William R. Phelps.
West Virginia Div. of Vocational Rehabilitation, Charleston. Program Development Section. Oct 74, 10p
PB-236 773/8WS PC$3.25/MF$2.25

The report covers progress during 1964 in a state-wide approach to serving the adult mentally retarded female. Female clients were served by the DVR field program and a state-operated comprehensive rehabilitation center with the basic curricula and approach focused on the domestic arts area. Two hundred nineteen clients were served at the time of report with 31 vocationally rehabilitated.

ORGANIZATIONAL PSYCHOLOGY

Application of Information Theory Concepts to Study Work Complex Versus Operator Action Time.
Roger L. Catlett.
Army Materiel Command Texarkana Tex Intern Training Center Mar 73, 56p USAMC-ITC-2-73-08
AD-786 286/5WS PC$4.25/MF$2.25

Information theory concepts are currently being applied to obtain a quantitative measure of work difficulty or complexity. This paper uses Information Theory to investigate the relationship between information input and operator response time. To investigate this relationship, twelve male subjects were tested for reaction time. Stimuli were any possible patterns of eight lights. Responses were corresponding patterns of stimultaneous key depressions in an eight-key keyboard (one key for each finger). The conclusion drawn from these experiments was that there seems to be a linear relationship between information input (log2 N, where N is the number of equally likely alternatives) and operator reaction time for an unlearned task.

The Empirical Derivation of Equations for Predicting Subjective Textual Information.
Dan Kauffman, Mike Johnson, and Gene Knight.
Arizona Univ Tucson Jul 74, 40p AFHRL-TR-74-55
AD-786 427/5WS PC$3.75/MF$2.25

Parameters pertaining to information processing by human beings have, in the past, been determined by learning and memory experiments with nonsense syllables, number sequences, etc. However, the real world is concerned with the processing of meaningful information not senseless texts. Therefore, the determination of subjective information directly from meaningful material becomes extremely important in the instruction-learning process. This study derives an equation for predicting the subjective textual information contained in a text of material written in the English language. Specifically, the investigation describes, by a mathematical equation, the relationship between the subjective information content of written textual material and the relative number of errors committed by a learner when asked to predict, letter by letter, the content of given textual material. The relationship shows how the subjective information of a given text for a specific learner is directly proportional to the number of wrongly-guessed signs made by that learner. (Modified author abstract)

The Measurement of Organizational Effectiveness: A Review of Relevant Research and Opinion.
John P. Campbell, David A. Bownas, Norman G. Peterson, and Marvin D. Dunnette.
Personnel Decisions Inc Minneapolis Minn Jul 74, 302p NPRDC-TR-75-1
AD-786 462/2WS PC$9.25/MF$2.25

The general topic of defining organization effectiveness is addressed. While no succinct definition is provided, a construct of organizational effectiveness is recognized. Existing theory, research, and practice surrounding the construct has been searched and current measurement techniques have been cataloged along with summaries of various theories and models. Alternative methodological approaches and manifest characteristics of organizations in terms of effectiveness are considered. A compilation of independent, dependent, and intervening variables is presented. Suggestions are offered for future research in the Navy setting in the area of organizational effectiveness. (Author)

Changes in Soldier Attitudes.
Eugene H. Drucker.
Human Resources Research Organization Alexandria Va Aug 74, 46p HumRRO-TR-74-21
AD-786 538/9WS PC$3.75/MF$2.25

As part of a study of methods for increasing motivation and preventing attitude deterioration of the enlisted man, responses to specific items in a 1970 HumRRO attitude survey conducted at Fort Knox were compared with responses to the same items in several surveys conducted by the U.S. Army Troop Attitude Research Branch during and immediately following World War 2. Caution is necessary in making such comparisons since responses to attitude items can be affected by many factors, including sample composition, outdated phrasing, willingness to respond candidly, influences from other items, administrative procedures, unit or post differences, and likelihood of combat participation. A review of the literature dealing with the process of attitude change gave special attention to the dissonance and functional theories of attitude change for possible implication with reference to changing soldier attitudes. (Modified author abstract)

Going Beyond the Mean in Educational Evaluation.
Robert E. Klitgaard.
Rand Corp Santa Monica Calif Mar 74, 39p P-5184
AD-786 579/3WS PC$3.75/MF$2.25

Large-scale educational evaluations and government data systems often throw away useful information, since they rely almost exclusively on average scores and average effects. This paper recommends a different course of action. It discusses the mean as easy to use since more knowledge is better than some, one should go beyond simple averages. It is admitted that the measures proposed need further research before their exact properties are understood.

An Experimental Implementation of Computer Assisted Admissible Probability Testing.
William L. Sibley.
Rand Corp Santa Monica Calif Feb 74, 27p P-5174
AD-786 601/5WS PC$3.75/MF$2.25

The project is interested in ways computer technology can be used to enhance the military services' training programs as well as to help the selection and placement processes. It deals with the use of computers in testing, in particular the estimation of probabilities.

Intelligence Test Modifications on Handicapped and Nonhandicapped Children.
Jerome M. Sattler.
San Diego State Coll. Foundation, Calif. 31 Oct 72, 84p
PB-235 518/8WS PC$4.75/MF$2.25

The work reported herein represents an effort to evaluate the effects of modifications in test procedures on the performance of both nonhandicapped and handicapped children. The modifications were designed so that children with special disabilities could be evaluated with the materials used in standard tests. The two most prominent tests in the field of individual assessment of children, the Stanford-Binet and WISC, were used in the present investigation. The modifications used in the investigation, for the most part, represent changes both in the test stimuli (usually keeping the standard stimulus and adding distractor stimuli in order to change the test into a multiple-choice format) and in the method of response (requiring only a pointing or a 'yes' or 'no' response). The alterations were necessary in order to be able to use the items in the assessment of children with special disabilities, especially disabilities which involve speech or motor coordination.

A Motor Vehicle Accident Causal System: The Human Element.
James C. Fell.
National Highway Traffic Safety Administration, Washington, D.C. Office of Research and Development. Jul 74, 28p DOT-HS-801 214
PB-235 918/0WS PC$3.75/MF$2.25

A motor vehicle accident causal reporting system, from a human factors viewpoint, is presented. The system is based upon a cause and effect relationship: the 'effect' being the primary failure, non-performance, or behavior which led directly to the collision situation; the 'cause' being the reasons for the human failure. The effects are described as information processing failures of four types: (1) perception failures, (2) comprehension failures, (3) decision failures, and (4) action failures. The reasons for, or causes, of these failures which lead to collisions are categorized. Two recent studies which used similar causal systems are described and findings are presented from them.

Behavioral Interview Guide (BIG).
A. D. Witherspoon, E. K. deValera, W. O. Jenkins, and W. L. Sanford.
Rehabilitation Research Foundation, Elmore, Ala. Experimental Manpower Lab. for Corrections. Dec 73, 49p RRF-909-12-73, DLMA-21-01-73-38-4
PB-236 205/1WS PC$3.75/MF$2.25

The Behavioral Interview Guide (BIG) is a training aid to prepare professionals and paraprofessionals to conduct a behavioral interview. It briefly introduces the concept of behavior and discusses techniques used in executing the behavioral interview, including preparations for interviewing, conducting the interview, and special problems. The BIG is avaluable aid for using the behavioral assessment instruments (e.g., the Environmental Deprivation Scale and the Maladaptive Behavior Record) developed by the Experimental Manpower Laboratory for Corrections. The guide includes interview excerpts and an annotated listing of suggested readings.

Assessment of Work Climates: The Appropriateness of Classical-Management Theory and Human-Relations Theory Under Various Contingencies.
John A. Langdale.
New York Univ., N.Y. Graduate School of Arts and Sciences. Jun 74, 252p DLMA-91-36-73-29
PB-236 218/4WS PC$8.50/MF$2.25

The construct of 'organizational climate' was explicated and various ways of operationalizing it were reviewed. A survey was made of the literature pertinent to the classical-human relations dimension of environmental quality. As a result, it was hypothesized that the appropriateness of the classical and human-relations master plans is moderated by at least 11 contingencies, e.g., the organization's goals, its tasks, its size, its members' personalities, and the stress factors to which it is subjected. A measure of the classical-to-human relations climate was developed and validated. The research carried out, using this instrument, supported a contingency theory of organizational design. Other hypotheses were also tested. These results were interpreted theoretically and their practical implications were discussed. A comprehensive bibliography is included.

Job Stigma and Self-Esteem.
Michigan Univ., Ann Arbor. Dept. of Sociology. May 74, 178p
PB-236 229/1WS PC$7.00/MF$2.25

For bibliographic citation see SOCIAL CONCERNS

The Weekly Activity Record (WAR): A Measure of Time Allocation in the Analysis and Prediction of Criminal Behavior and Recidivism.
W. O. Jenkins, J. B. Muller, M. D. DeVine, E. K. deValera, and A. D. Witherspoon.
Rehabilitation Research Foundation, Elmore, Ala.
Experimental Manpower Lab. for Corrections. Mar 74, 30p
RRF-911-3-74, DLMA-21-01-73-38-6
PB-236 268/9WS PC$3.75/MF$2.25

This report describes the development and validation of the Weekly Activity Record (WAR), an instrument for the analysis and prediction of criminal behavior and recidivism. The 18 items on the instrument record the hours per week devoted to various activities: vocational, avocational social, physical, antisocial, personal, and interpersonal. The WAR was used with other behavioral assessment instruments in interviews with 117 male prison releasees. The data in this report were taken from those interviews and validated against the Law Encounter Severity Scale (LESS), a criterion for law violation and recidivism. Releasees with minimal law encounters were found to devote significantly more time to positive activities (those that contribute to successful postrelease adjustment) than did those releasees who had more severe law encounters. WAR scores of the releasees were also compared to those of noncriminal populations.

The Development and Application of Intelligence Tests for the Blind: A Research Utilization Conference.
W. Scott Curtis.
Georgia Univ., Athens. Aug 72, 53p
PB-236 486/7WS PC$4.25/MF$2.25

The purpose of the project was to inquire into the current status of development, past use, availability, and future planning for intelligence tests in relation to the fields of psychological, educational and vocational counseling for visually handicapped youths and adults.

Modeling, Behavior Change, and Rehabilitation.
Missouri Univ., Columbia. Regional Rehabilitation Research Inst. Jun 73, 88p
PB-236 605/2WS PC$4.75/MF$2.25

For bibliographic citation see EDUCATION, LAW, AND HUMANITIES

—Highlight—
The Self Concept and Behavior: Overview and Supplement.
William H. Fitts.
Dede Wallace Center, Nashville, Tenn. Jun 72, 64p
Research Mono-7
PB-236 637/5WS PC$4.25/MF$2.25

The monograph, the final in a series of seven, has two purposes: to review a long term research program and to report supplemental data not included in previous monographs. The preceding monographs have reported a diversity of research findings; however, new studies have been reported so rapidly that there is now a great deal of additional material available. In this monograph, the first chapter provides an overview and historical background of the author's self concept research program and attempts to evaluate the products and results of the program. The remaining chapters present data which are supplementary to that of the other monographs and which have not been previously reported. These data are in no sense comprehensive or exhaustive; instead they represent a hasty summation of some of the studies that readily cluster together around related topics.

Some Thoughts on Speech Problems for the Vocational Rehabilitation Counselor.
William R. Phelps.
West Virginia Div. of Vocational Rehabilitation, Charleston. Program Development Section. Oct 74, 12p
PB-236 770/4WS PC$3.25/MF$2.25

Training material is presented for the newly employed untrained vocational rehabilitation counselor. Areas covered include definitions, incidence, causal factors, relationships with intellectual and physical disabilities, various speech problems, references and possible resources. Para-professionals serving in the behavioral sciences should also find this information of value.

Field Theory in the Behavioral Sciences. A Brief View for the Behavioral Scientist.
William R. Phelps.
West Virginia Div. of Vocational Rehabilitation, Charleston. Program Development Section. Oct 74, 21p
PB-236 771/2WS PC$3.25/MF$2.25

The paper presents a brief view of one field theory as it relates to the behavioral sciences. It is written for the practitioner, but academicians may also find the information helpful. Areas covered include: history, concepts of life space, dynamic concepts, influence on small groups, representative experiments, criticism, contributions, and bibliography.

Some Thoughts on Frustration-Training Information for the Para-Professional Worker Serving in the Behavioral Sciences.
William R. Phelps.
West Virginia Div. of Vocational Rehabilitation, Charleston. Program Development Section. Oct 74, 12p
PB-236 772/0WS PC$3.25/MF$2.25

The document contains some thoughts on frustration and refers to etiology, definitions, examples, childhood and adult frustrations, emotional conflicts, defense mechanisms, therapist's task, school's responsibility, and brief bibliography. This information should be helpful for the practitioner serving in various helping relationships, particularly the untrained para-professional employee.

SOCIAL CONCERNS

Drug Usage Rates as Related to Method of Data Acquisition.
George H. Brown.
Human Resources Research Organization Alexandria Va Aug 74, 52p HumRRO-TR-74-20
AD-786 537/1WS PC$4.25/MF$2.25

The report documents two studies concerned with the effect upon obtained drug usage rates of various methods of data acquisition. Data were collected in the summer of 1972. One study compares the anonymous questionnaire and the personal interview. The other compares five different types of questionnaire administrators. The research subjects were Army enlisted personnel in grades from E1 through E5. There were approximately 400 men in the first study, and 500 in the second. In both studies, the obtained drug usage rates, by a variety of criteria, did not differ for modes of data collection. (Author)

—Highlight—

Open Space and Recreation Opportunity in America's Inner Cities.
Diana R. Dunn.
National Recreation and Park Association, Arlington, Va. Jul 74, 166p HUD/CDES-16
PB-235 121/1WS PC$6.25/MF$2.25

The report makes available a substantial array of data and information regarding open space and recreation opportunities in 25 of America's inner cities. Accumulated largely in 1970, it reflects cooperation by Federal agencies, professional associations and academic institutions, as well as local officials representing public park and recreation departments, planning units, Model Cities agencies, welfare planning councils, boards of education, chambers of commerce, religious groups, and private and voluntary agencies in the study cities. It is designed to be a factual and conceptual tool to provoke debate and stimulate action to improve recreation opportunities for low income residents of high-density areas.

Strategies for Working with the Inner-City Poor.
James E. Trela, and Richard O'Toole.
Vocational Guidance and Rehabilitation Services, Cleveland, Ohio. 1973, 42p
PB-235 225/0WS PC$3.75/MF$2.25

A Cleveland inner-city project was designed to address the long term causes of poverty and to ameliorate poverty's more immediate consequences in an inner-city population. The monograph examines some of the problems involved and suggests a general model for working with the poor.

Counseling and Community Services Center for the Deaf.
William N. Craig.
Pittsburgh Hearing and Speech Society, Pa. Jan 73, 71p
PB-235 380/3WS PC$4.25/MF$2.25

The project demonstrates the effectiveness of a counseling and community services center for deaf people in a metropolitan area. The experiment was based on the need to broaden the service base for deaf people, many of whom are not aware of or not able to make adequate use of regular community service facilities because of the problems of communication and rapport. The serious consequences of underservice on the well-being of deaf individuals have long been recognized. This ppct therefore, is providing an important opportumity to demonstrate techniques whereby community services available to the general population may be made more available to deaf persons. (Modified author abstract)

An Evaluation of Five Drug Abuse Education Projects Parts I and II.
Robert Jerrett, III.
Abt Associates, Inc., Cambridge, Mass. 1974, 104p AAI-74-11, ASPE-73-9(IV)
PB-236 061/8WS PC$5.25/MF$2.25

The report evaluates five NIMH (NIDA)-administered drug education projects for their operations and effectiveness. Findings and recommundations are presented in Part I, while the second section utilizes a process model and specific observations to discuss a variety of dimensions of drug education procedures.

Job Stigma and Self-Esteem.
Edward J. Walsh.
Michigan Univ., Ann Arbor. Dept. of Sociology. May 74, 178p DLMA-91-26-73-11
PB-236 229/1WS PC$7.00/MF$2.25

The first phase of this study included three years of participant observation on an intermittent basis during graduate work. The author rode on garbage trucks in Ann Arbor and generated hypotheses about the effect of occupational stigma on the self-esteem of these predominantly black garbagemen. The grant enabled the author to test hypotheses via systematic surveys in Detroit and Minneapolis, cities with inverse racial compositions in their Refuse units.

—Highlight—

Alcohol Public Education Literature-Alcohol Countermeasures Literature Review.
John D. DeLellis, and Patrick Griffin.
National Safety Council, Chicago, Ill. Jun 74, 15p DOT-HS-801 184
PB-236 319/0WS PC$3.25/MF$2.25

The purpose of this review is to summarize the observations and suggestions contained in the recent literature on the subject. This review is selective, and not intended to be an exhaustive survey. For sake of organization, the paper is divided into four general categories: Indentification, prevention, employment and productivity, and traffic safety.

Volunteer Citizens Program to Combat Hunger and Malnutrition Among Low-Income Families.
Thomas W. Snodgrass, and Gary Marchbank.
Missouri Association for Social Welfare, Jefferson City. 31 May 73, 35p
PB-236 336/4WS PC$3.75/MF$2.25

The uniqueness of Volunteers Against Hunger has been recognized by the United States Department of Agriculture, and the National Public Relations Council. The April 1972 issue of USDA's 'Food and Nutrition' magazine contained a four page article about the impact Volunteers Against Hunger made on Missouri's food programs. 'Channels', the bi-weekly newsletter of the National Public Relations Council, described Missouri's Volunteers Against Hunger as a model for setting up a statewide advocacy group and suggested those interested should write VAH headquarters in Jefferson City. As a result of this publicity, 23 organizations from 14 states wrote VAH asking for more information about its work. The success of this project has been well documented in five previous reports, therefore, this one will be devoted to specific examples of what volunteers have accomplished during the past three years and to provide information to others who might want to organize a similar movement.

The Changing Economic Status of 5000 American Families: Highlights from the Panel Study of Income Dynamics.
Michigan Univ., Ann Arbor. Inst. for Social Research. May 74, 86p OEO-LN-1443
PB-236 456/0WS PC$4.75/MF$2.25

A summary is made of the data presented in two previous volumes covering the survey of five thousand U.S. families during a period of over five years, tracing their socioeconomic history to examine changes in the economic status of individuals and groups.

—Highlight—

Five Thousand American Families: Patterns of Economic Progress, Volume I: An Analysis of the First Five Years of the Panel Study of Income Dynamics.
James N. Morgan, Katherine Dickinson, Jonathan Dickinson, Jacob Benus, and Greg Duncan.
Michigan Univ., Ann Arbor. Inst. for Social Research. 1974, 439p ISBN-0-87944-153-4, OEO-LN-1441
PB-236 457/8WS PC$11.25/MF$2.25

A report in three volumes is made on the social and economic status of five thousand U.S. families over time, examining data obtained during the period 1967 to 1972 and later, and discussing the economic changes for individuals and groups. Volume One contains materials on such topics as family composition, wage rates of family heads, wife incomes, labor supply of family members, income transfer and instability, educational attainment, and different levels of well being.

Five Thousand American Families: Patterns of Economic Progress, Volume II: Special Studies of the First Five Years of the Panel Study of Income Dynamics.
James N. Morgan.
Michigan Univ., Ann Arbor. Inst. for Social Research. 1974, 377p ISBN-0-87944-153-4, OEO-LN-1442
PB-236 458/6WS PC$10.25/MF$2.25

The second volume in a three volume series covering the economic history of five thousand U.S. families over a period of years contains materials on such topics as housing and home ownership, residential mobility, travel modes to work, family labor dynamics, variability of family income, tax incidence, household income and food consumption, births and expected family size, time inputs to children, and related subjects.

—Highlight—

New Careers and Agencies: Views from the Top. Working Paper No. 3. Rehabilitation Occupations for the Disadvantaged and Advantaged. A Program of Research on Occupations and Professions in the Field of Rehabilitation.
Linda R. Noelker, Marie R. Haug, Gay C. Kitson, and Marvin B. Sussman.
Case Western Reserve Univ., Cleveland, Ohio. Dept. of Sociology. Mar 73, 53p SRS-12-55206-002
PB-236 484/2WS PC$4.25/MF$2.25

The study explored how rehabilitation and social welfare agencies in one midwestern community handled the consequences of the 'new careers movement.' The sample consisted of 23 rehabilitation agency directors and 17 social service agency directors. They were compared on the following sets of variables: (1) manpower, (2) funding, (3) interorganizational linkage, (4) recruitment, (5) hiring practices, (6) community linkage, (7) client population, (8) adequacy of services, and (9) use of paraprofessionals. Four-fifths of the directors studied had some awareness of the paraprofessional movement; however, agency administrators' knowledge of the movement appeared limited. Although some agencies employed paraprofessionals, many failed to embody core ideas of the 'new careers.'

A Study of Negro Adoption Families: A Comparison of a Traditional and an Innovative Adoption Program.
Elizabeth A. Lawder, Janet L. Hoopes, Robert G. Andrews, Katherine D. Lower, and Susan Y. Perry.
Bryn Mawr Coll., Pa. Jan 71, 179p SRS-86-80039-3
PB-236 510/4WS PC$7.00/MF$2.25

A 1964-1968 study compared families in an experimental quasi-adoption program for Negro children with those in a traditional adoption program. It found that quasi-adoption compared favorably in outcome in family functioning, child functioning, and child development. Seventy-six families with 82 adoptive children participated in the study. The design measured as independent variables the individual and marital functioning of husband and wife and the intervening factors of child and agency service, with outcome as the dependent variable. Comparisons were made through statistical analysis and descriptive studies of 12 families. Appendices include interview and observation schedules and reliability tables. Portions of this document are not fully legible.

Work and Welfare: An Overview.
Martin Lowenthal.
Social Welfare Regional Research Inst., Chestnut Hill, Mass. Aug 71, 175p SWRRI-Pub-1
PB-236 514/6WS PC$6.25/MF$2.25

The report observes that the economic outlook for the nation appears dim and that the continuing recession is driving more clients onto welfare while inflation is magnifying the cost to the government and diminishing the value of payments to the recipient. These costs are imposing increasing tax burdens upon a public which feels that, given the economic crunch, it cannot afford to let the rolls expand at present rates. The demand is for change in the welfare system which will cut or limit costs and will restrict the system to selected needy people. The issue of work and welfare involves jobs that pay adequately, have mobility potential, and have status and social meaning. The considerations include problems in efforts that presuppose that a large segment of the recipients of AFDC, particularly women, are able to seek, obtain, and keep jobs that pay well and that their children can be adequately cared for in terms of their physical, emotional, and educational needs.

Vocational Rehabilitation for Disabled Public Assistance Clients: A Follow Up Study of Four Projects.
Charles M. Grigg, Patricia Y. Martin, Michael G. Horton, and Marie W. Osmond.
Florida State Univ., Tallahassee. Inst. for Social Research. 1972, 106p
PB-236 560/9WS PC$5.25/MF$2.25

The report is a follow up study of disabled public assistance clients in four states. It attempts to evaluate the effects of cooperative efforts between personnel of vocational rehabilitation and family services to intervene in the poverty-dependence cycle of selected disabled welfare applicants and recipients.

—Highlight—

Parole Decision-Making: Supplemental Report One. Development of a Data Base for Parole Decision-Making.
Susan M. Singer, and Don M. Gottfredson.
National Council on Crime and Delinquency, Davis, Calif. Research Center. Jun 73, 117p
PB-236 565/8WS PC$5.25/MF$2.25

Building upon the uniform parole reports system experience, a primary aim of this project was to combine information items collected by various federal agencies about inmates and parolees into a data base suitable for computer facilitated analyses of the relationships of information items to paroling decisions and to the consequences of those decisions. The document describes the implementation of this project phase, including the sources of information, the coding and reliability procedures, operation difficulties encountered, and a description of the data system to be implemented by the parole Board. Portions of this document are not fully legible.

Parole Decision-Making: Supplemental Report Two. Parole Decision-Making Coding Manual.
Don M. Gottfredson, and Susan M. Singer.
National Council on Crime and Delinquency, Davis, Calif. Research Center. Jun 73, 75p
PB-236 566/6WS PC$4.25/MF$2.25

Detailed instructions are given for the completion of coding forms used in gathering information for a parole decision making data base. Definitions of the various terms found on the data forms are provided. Portions of this document are not fully legible.

Parole Decision-Making: Supplemental Report Three. The Problem of Overlap in Experience Table Construction.
Leslie T. Wilkins.
National Council on Crime and Delinquency, Davis, Calif. Research Center. Jun 73, 24p
PB-236 567/4WS PC$3.25/MF$2.25

A review is made of methods and problems in the effective use of statistical information based on past behavior to predict future parole behavior. Many informational items concerning offenders, taken from case files, are seen to overlap and be correlated with one another. For example, auto thieves tend to be younger than offenders in general. Statisticians have invented procedures which take overlapping into account. When this is done it is typically found that only a few items appropriately weighted, may be expected to do the work, in prediction, of a much larger number. Various studies indicate that less sophisticated methods of combining the information may end up, in practice, as better than the more sophisticated techniques. This curious result suggests that the nature of the data may not satisfy the assumptions which are made in statistical theory.

Parole Decision-Making: Supplemental Report Four. Do Experience Tables Matter.
Peter B. Hoffman, and Harvey M. Goldstein.
National Council on Crime and Delinquency, Davis, Calif. Research Center. Jun 73, 43p
PB-236 568/2WS PC$3.75/MF$2.25

Results are presented of an experiment to determine parole officers' attitudes toward a statistical guide for individual case decision-making. At a National conference on parole decision-making participants were randomly allocated to six groups and asked to make decisions about a set of hypothetical case summaries, some with and some without a base expectancy score item. Unknown to the participants, different groups received the same cases with different base expectancy scores. While the presentation of a base expectancy score did not appear to reduce the variation in the decisions within the various experimental groups, the presentation of different base expectancy scores for the same case did appear to shift the average time held before release. Included are the results of each groups ranking and the case summaries used in the evaluation.

Parole Decision-Making: Supplemental Report Five. Information Selection and Use in Parole Decision-Making.
Leslie T. Wilkins, Don M. Gottfredson, James O. Robinson, and C. Ann Sadowsky.
National Council on Crime and Delinquency, Davis, Calif. Research Center. Jun 73, 84p
PB-236 569/0WS PC$4.75/MF$2.25

Two studies describe ways to select and use information in parole decision-making. In the first an information board of items used in the decision process was constructed, and decisions based upon data from the board were made by research clerks in the correctional field, graduate students in criminology, and staff of the United States board of parole. The results show that those who tend to oppose parole base their decisions on the retributive or deterrent effects of imprisonment, whereas those who tend to favor parole are more interested in the offender's ability to 'make it' in the streets. The second study was designed to elicit material about groups of decision-makers, patterns of search for information to assist them, their rationale for acquiring particular types of information at various stages in the search sequence, and the relationships between given sets of information, choice of disposition, and confidence in the correctness of the choice. Portions of this document are not fully legible.

Parole Decision-Making: Supplemental Report Seven. The Operational Use of an Experience Table.
Peter B. Hoffman, Don M. Gottfredson, Leslie T. Wilkins, and Guy E. Pasela.
National Council on Crime and Delinquency, Davis, Calif. Research Center. Jun 73, 42p
PB-236 571/6WS PC$3.75/MF$2.25

The authors discuss the operational use of an experience table as an aid to parole selection. For this study an experience table was developed for the United States Board of Parole, samples of current adult male parole or reparole considerations were selected, and decisions were made by parole-board members who were divided into four groups. The first group was given an experience table prior to consideration and was asked to independently complete a response form containing three items. The second group was not given an experience table, but each member was given a clinical-risk estimate form to predict parole success. The third group made decisions in the customary manner, without an experience table or a response form. The fourth group was given an experience table but no response form. The study results showed that the experience table did influence the parole board members' clinical risk estimates.

Parole Decision-Making: Supplemental Report Eight. Paroling Policy Feedback.

Peter B. Hoffman.
National Council on Crime and Delinquency, Davis, Calif. Research Center. Jun 73, 44p
PB-236 572/4WS PC$3.75/MF$2.25

The report describes a project to provide a feedback device capable of making more explicit the presently implicit policies used in making parole case decisions. A feedback device may enable parole board members to compare actual policies with those desired and take corrective action if indicated, and reduce the criticism leveled against the board as having unfettered discretion. The relationships between decision-makers' evaluations of four specific case factors and paroling decisions are studied. From these relationships, a method of describing and articulating implicit paroling policy is demonstrated and the relative weights given to the above factors in practice are described.

Parole Decision-Making: Supplemental Report Nine. Paroling Policy Guidelines: A Matter of Equity.
Peter B. Hoffman, Don M. Gottfredson, Maurice H. Sigler, and Leslie T. Wilkins.
National Council on Crime and Delinquency, Davis, Calif. Research Center. Jun 73, 53p
PB-236 573/2WS PC$4.25/MF$2.25

The report discusses the need for more explicit definition of factors used in parole selection and the problem of determining how various factors should be weighted. It is pointed out that implicit policy may be made explicit through an analysis of present practice. The major task of the parole board is to set standards and explicit policies. In order to further these objectives, a Federal Pilot Regionalization Project makes use of decision guidelines which do not remove discretion, but enable its exercise in a fair and rational manner. They are designed to structure and control discretion and to provide an explicit, uniform policy contributing to the issues of fairness and equity. The foreword discusses the relation of fairness to justice and shows how the latter can be addressed by research. The relation of effectiveness to fairness is considered, and models which could take these concerns into account are suggested.

Parole Decision-Making: Supplemental Report Ten. Parole Selection: A Balance of Two Types of Error.
Peter B. Hoffman.
National Council on Crime and Delinquency, Davis, Calif. Research Center. Jun 73, 42p
PB-236 574/0WS PC$3.75/MF$2.25

A description is presented of a numerical method used in an attempt to determine those who will commit new offenses or parole violations and those who will complete parole without violations. The paper focuses on a method of assessing the incidence of two error types and describing the balance between them. A feedback device is discussed which provides information concerning the potential consequences of changes in parole selection policy upon this balance and the resulting social costs. Tables are provided which demonstrate the method.

Parole Decision-Making: Supplemental Report Eleven. Information Overload: Peace or War with the Computer.
Leslie T. Wilkins.
National Council on Crime and Delinquency, Davis, Calif. Research Center. Jun 73, 40p
PB-236 575/7WS PC$3.75/MF$2.25

Experiments are cited to show that there are important problems with regard to human decision-making which are related to the subjective processing of the data. As a result, different decision-makers using a computerized information system geared to individual case material would use the system in different ways and with different results. Also, since a subjective assessment still ultimately terminates the decision-making process, the question of using all relevant information is not solved simply because the information is presented by a computer. The report concludes that it is too simplistic to believe that all decision-making problems would be solved if only all the information were readily available.

Parole Decision-Making: Supplemental Report Twelve. The Reliability of Information in the Parole Decision-Making Study.
James L. Beck, Susan M. Singer, William H. Brown, and Guy E. Pasela.
National Council on Crime and Delinquency, Davis, Calif. Research Center. Jun 73, 38p
PB-236 576/5WS PC$3.75/MF$2.25

Review is given of parole file data indexing procedures and problems. The collection of information on approximately 6,000 cases and the use of such data for prediction or risk tables requires that some measure of the reliability of that data be made. Although the validity of the information found in federal prison inmates' files could not be determined, procedures for uniform interpretation and coding of that information were defined. Collection of a reliability sample provided a measure of the degree of agreement among coding staff. The procedure also uncovered areas of coding difficulty and served as a training device for new staff. Two separate reliability studies are compared in this report. Several different measures of agreement are presented and possible explanation of some low scores is given. The relationship between coders attitudes and reliability is explored. Portions of this document are not fully legible.

Parole Decision-Making: Supplemental Report Thirteen. The Practical Application of a Severity Scale.
Peter B. Hoffman, James L. Beck, and Lucille K. DeGostin.
National Council on Crime and Delinquency, Davis, Calif. Research Center. Jun 73, 39p
PB-236 577/3WS PC$3.75/MF$2.25

Two exercises are conducted with decision-makers in order to develop procedures for more consistent offense severity judgments. Hearing examiners and board members of the United States Board of Parole ranked offense descriptions from least to most severe. Agreement on severity ratings, among both examiners and members, was quite high. Differences between members' and examiners' ratings are examined and discussed. The categorization of offenses according to judged severity resulting from these exercises was incorported in guidelines for parole decision-making developed in order to provide a consistent paroling policy. Since these guidelines are presently in use in a pilot project of actual decision-making, the results found immediate application in a policy revision.

Job Satisfaction Among Vocational Rehabilitation Counselors.
William R. Phelps.
West Virginia Div. of Vocational Rehabilitation, Charleston. Program Development Section. Oct 74, 22p
PB-236 598/9WS PC$3.25/MF$2.25

The study attempts to assess job satisfaction among newly employed vocational rehabilitation counselors. One hundred forty (140) VR counselors were surveyed by questionnaire between October 1967 and December 1968. Clues were identified which may have relevance for recruitment, selection, training, management, promotions and retention of rehabilitation counselors.

HEW (Health, Education and Welfare) and Minority Groups.
Roslyn Kane.
Chicago Univ., Ill. Center for the Study of Welfare Policy. Sep 72, 23p Working Paper-C-2, SRS-10-56020-008
PB-236 607/8WS PC$3.25/MF$2.25

A study of the impact of HEW programs on ethnic minorities found that the results are frequently opposite to those intended, partly because of spurious data on the essential characteristics of the minorities, but also because of the lack of 'cultural integration' of HEW and HEW-related program staffs. These groups are largely cut off from influence over HEW programs. If program funds are to be submerged in revenue sharing, with a relaxation of federal standards, the plight of ethnic minorities may well worsen.

A Self-Help Program for One Parent Households.
Associates for Research, Philadelphia, Pa. May 71, 7p
PB-236 620/1WS PC$3.25/MF$2.25

A two-year project to develop a clerical skills training program for women from AFDC households was undertaken from May, 1968, to April, 1970. As initially conceived, the project was to have two unique features. The training system was to be developed by taking a systems approach, i.e., by incorporating as many social and psychological factors affecting the learning situation as possible. After the training system matured, its continuation was to be partially or totally ensured by revenues generated from a company employing successful trainess.

Day Care for Children of Mothers in Training or Employed. Park DuValle Neighborhood Service Center.
Carolyn Rosenkrans.
Kentucky Dept. of Child Welfare, Frankfort. 30 Apr 72, 40p
PB-236 624/3WS PC$3.75/MF$2.25

The report covers a service center program designed to bring resources of all major services systems to a neighborhood in Louisville, Kentucky, in which approximately one-third of the families are on AFDC and nearly 6,600 children under 14 years of age live in households with annual incomes of less than $3,600. It provides comprehensive day care services to families for children from birth through twelve years of age, from 6 a.m. to 6 p.m., five days a week. Major objectives of the project were to demonstrate the transfer of responsibility for the operation of the program to a trained paraprofessional staff during the second funding year and during the third year to develop, through demonstration, models that can be used by other low-income communities for a child care program.

The Roles and Functions of a Regional Rehabilitation Research Institute.
Joseph T. Kunce.
Missouri Univ., Columbia. Regional Rehabilitation Research Inst. Nov 73, 32p Research Ser-8
PB-236 638/3WS PC$3.75/MF$2.25

The Regional Rehabilitation Research Institutes were originally established as a type of specialized research center to conduct basic and applied research on a designated topic relevant to vocational rehabilitation. The report briefly describes the operations and accomplishments of the Institute established at the University of Missouri-Columbia. From this report the reader should become knowledgable about research findings that may be of interest to him as well as about the roles and functions that an institute could have.

Which Way Out. Discharge Planning for the Mentally Retarded.
Peter S. Houts, Joseph P. Leaser, and Robert A. Scott.
Pennsylvania State Univ., Hershey. Dept. of Behavioral Science. 1973, 28p
PB-236 640/9WS PC$3.75/MF$2.25

The manual presents pictorially the right way and the wrong way to prepare the mentally retarded for return to the community. Planning should take place first within the institution and then include family and community people involved.

Goal Planning in Mental Health Rehabilitation.
Peter S. Houts, and Robert A. Scott.
Pennsylvania State Univ., Hershey. Dept. of Behavioral Science. 1972, 39p
PB-236 641/7WS PC$3.75/MF$2.25

The manual discusses the value of planning for and with the mentally retarded for the achievement of specified goals.

Goal Planning With the Mentally Retarded.
Peter S. Houts, Robert A. Scott, and Joseph P. Leaser.
Pennsylvania State Univ., Hershey. Dept. of Behavioral Science. 1973, 43p
PB-236 708/4WS PC$3.75/MF$2.25

The manual is one of a series of training materials for rehabilitating the mentally retarded. It presents, in pictorial form, the steps in assigning and achieving goals, as well as methods to be avoided.

Evaluation and Inventory of Public Assistance Recipients.
Washington State Dept. of Social and Health Services, Olympia. 1972, 326p
PB-236 710/0WS PC$9.50/MF$2.25

For bibliographic citation see JOB TRAINING AND CAREER DEVELOPMENT

The Investment Theory and Selection of Vocational Rehabilitation Clientele.
William G. Hills, Harold D. Vialle, and Donna E. Ledgerwood.
Oklahoma Univ., Norman. Regional Rehabilitation Research Inst. Mar 73, 46p Monograph-4
PB-236 711/8WS PC$3.75/MF$2.25

The study is based on the comparison of services rendered to clients in ten district Vocational Rehabilitation offices. These offices have been selected from five states geographically distributed throughout the country. Investigation of specific cases is accomplished through a random sampling of 559 closed rehabilitated cases from fiscal year 1969. These cases have been divided into two categories, the Disadvantaged Disabled and the Regular Disabled. Chapter One gives the basic

philosophy underlying VR, introduces the investment theory and discusses the role of the counselor. Chapter Two describes the selection process as it relates to the disadvantaged. Chapter Three reports the findings and Chapter Four interprets these findings through implications of the investment theory.

Project STAR: (Serving to Advance Rehabilitation).
Earl L. Long, and Leonard Fontana.
National Urban League, Inc., New York. 1974, 163p
PB-236 862/9WS PC$6.25/MF$2.25

Project STAR (Serving to Advance Rehabilitation) was a research and demonstration project sponsored by the National Urban League, Family Service Association of America and the National Association for Retarded Children. Its purposes were twofold: (1) to involve the families of retarded children from model city areas as consumers in the local service delivery systems for the retarded, and (2) to involve the parents of retarded children as decision makers in local and national agencies concerned with the retarded. The project took place in five cities: Tampa, Florida; South Bend, Indiana; Hartford, Connecticut; Portland, Oregon; and San Diego, California. The major methodology was the use of parent education groups and information and referrral techniques.

EDUCATION, LAW, AND HUMANITIES

A Survey of Student Measurement and Course Evaluation Procedures within the Air Training Command.
Arthur I. Siegel, Philip J. Federman, and Wayne S. Sellman.
Applied Psychological Services Wayne Pa Jul 74, 116p
AFHRL-TR-74-5
AD-786 041/4WS PC$5.25/MF$2.25

The methods, procedures, and results of an interview survey into reactions of user personnel to the Air Force Instructional System Development (ISD) system are reported. Training evaluation, student measurement, and training manager/instructor personnel were interviewed. All groups regarded the ISD procedures favorably, but some problems associated with the ISD procedures were identified. Recommendations for ISD program improvement are presented. The results of an interview survey of the Air Training Command to clarify issues relating to training evaluation and student measurement are reported. The survey was also concerned with a general assessment of the use and application of the Instructional System Development technique. (Modified author abstract)

Auding and Reading: A Developmental Model.
Thomas G. Sticht, Lawrence J. Beck, Robert N. Hauke, Glenn M. Kleiman, and James H. James.
Human Resources Research Organization Alexandria Va Jul 74, 115p AFHRL-TR-74-36
AD-786 042/2WS PC$5.25/MF$2.25

The report describes an auding/reading model that accounts for the development of receptive oracy and literacy skills. The model presents a classification scheme for the development of reading and auding skills which considers basic adaptive processes, languaging precursors, and languaging processes. Four hypotheses consistent with the model were derived: (1) the ability to comprehend language by auding will surpass ability to comprehend language by reading during early school years, until reading skill is acquired--following which time the ability to comprehend by auding and reading will become equal; (2) performance on measures of ability to comprehend language by auding will be predictive of performance on measures of ability to comprehend language by reading, after reading skill is acquired; (3) performance on measures of reading rate and auding rate will be comparable, after reading decoding skill has been developed; and (4) training in comprehending by auding will transfer to reading, after reading skill is acquired. An extensive literature review of empirical data bearing on the model supported each of the four hypotheses. (Modified author abstract)

Advanced Simulation in Undergraduate Pilot Training (ASUPT) Facility Utilization Plan.
William V. Hagin, and James F. Smith.
Air Force Human Resources Lab Brooks AFB Tex Jun 74, 36p AFHRL-TR-74-43
AD-786 411/9WS PC$3.75/MF$2.25

The capabilities of a flight simulation research facility located at Williams AFB, AZ are described. Research philosophy to be applied is discussed. Long range and short range objectives are identified. A time phased plan for long range research accomplishment is described. In addition, some examples of near term research efforts which will be conducted during periods when the total system is not available are described in some detail. These projects address immediate simulator users's needs. (Author)

Syllabus and Syllabus Development Techniques Used in Evaluating the A/F37A/T-4G Flight Simulator.
Steven K. Rust, James F. Smith, and Robert R. Woodruff.
Air Force Human Resources Lab Brooks AFB Tex Jun 74, 36p AFHRL-TR-74-44
AD-786 412/7WS PC$3.75/MF$2.25

The report describes the A/F37A/T-4G (T-4G) simulator syllabus developed by the Flying Training IVISION OF THE Air Force Human Resources Laboratory, to demonstrate the effectiveness of a limited visual, limited motion flight simulator in T-37 undergraduate pilot training. This report describes the syllabus development procedures employed, clarifies the resulting syllabus content and format, and provides a guide for development of future special purpose syllabi. (Author)

Use of the T-4G Simulator in USAF Undergraduate Pilot Training (UPT), Phase I.
Robert R. Woodruff, James F. Smith, and Robert A. Morris.
Air Force Human Resources Lab Brooks AFB Tex Jul 74, 41p AFHRL-TR-74-61
AD-786 413/5WS PC$3.75/MF$2.25

The A/F37A/T-4G, a T-37 flight training simulator with limited visual and motion capability, was evaluated to determine the extent to which its technology could be used to substitute for flying hours in the UPT T-37 syllabus. S special syllabus maximizing T-4G capabilities was used. This report describes the first phase in which six UPT students were trained in the T-4G/T-37 program. The six students completed contact training in 23.4 flying hours (a savings of 3.8 hours), and they completed instrument training in 9.7 flying hours (a savings of 11.1 hours). (Author)

—Highlight—

Women, Work, and the Law--A Legislative Review.
Beverly J. Hawkins.
Rand Corp Santa Monica Calif Feb 74, 35p P-5176
AD-786 602/3WS PC$3.75/MF$2.25

The review is intended to be an introduction to the legislation affecting the status of women. A primary focus of the legislative review is the detailing of what is illegal and legal treatment of employed women. Although this review is not exhaustive of all the legislation related to either the status of women or sex discrimination, describes the significant legislation in the field.

Minimum Wage Legislation in the United States.
Finis Welch.
Rand Corp Santa Monica Calif Dec 73, 50p P-5145
AD-786 639/5WS PC$3.75/MF$2.25

A report is made on the provisions and effects of U.S. minimum wage laws, referring almost entirely to teenage youths. The discussion involves employment, the business cycle, job distribution, school attendance, and policy interactions.

Economic Implications of Changes in Financing Medical Education.
John E. Koehler, and Albert P. Williams, Jr.
Rand Corp Santa Monica Calif Dec 73, 22p P-5150
AD-786 642/9WS PC$3.25/MF$2.25

The purpose of this paper is to examine some of the changes that have occurred in the medical education system concurrently with the growth of federal programs designed to influence that system's output.

Techniques for Making Written Material More Readable/Comprehensible.
Arthur I. Siegel, Joseph V. Lambert, and James R. Burkett.
Applied Psychological Services Inc Wayne Pa Science Center Aug 74, 28p AFHRL-TR-74-47
AD-786 849/0WS PC$3.75/MF$2.25

The technical memorandum presents an outline of how to apply psycholinguistic and intellective concepts to enhance the readability and comprehensibility of written materials. Guidelines for making the reader's task easier are provided, and some readability measurement procedures are also discussed. (Author)

Legal Problems of the Conquest of the Moon and Planets.
E. G. Vasilevskaya.
Scientific Translation Service, Santa Barbara, Calif. Aug 74, 136p NASA-TT-F-15756
N74-32402/1WS PC$5.75/MF$2.25

On the basis of an analysis of such international documents as the Treaty on Outer Space of 1967, the Agreement on Cosmonaut Safety of 1968, etc., this book discusses legal problems arising in connection with the active conquest of the moon and planets. The concept of celestial body is clarified, and several foreign concepts justifying aggressive trends in relation to the moon are critically discussed. Along with analysis of the most important documents determining bases for legal regulation of activity on the moon and planets, the draft of an international lunar treaty, submitted by the U.S.S.R. to the UN for consideration in June, 1971, is analyzed in detail. (Author)

Training State and Community Curriculum Packages: Driver Improvement Analysis, Driver License Examiner-Supervisor and Traffic Record Analysis.
V. E. Burgener, and Dona Tiryakioglu.
Technical Education Research Centers, Inc., Champaign, Ill. Midwest Center. Aug 74, 218p DOT-HS-801 203
PB-235 714/3WS PC$7.25/MF$2.25

A series of five national instructor training institutes were planned for each of three emerging highway safety technician areas for which curriculum packages have been prepared (Driver Improvement Analysis; Driver License Examiner-Supervisor; and Traffic Record Analysis). Technical Education Research Centers and Dunlap & Associates collaborated to conduct the institutes from October 15 to December 14, 1973. The report contains detailed information on successful operation of Manpower Training Institutes for NHTSA.

Career Development (Academic Careers and Post-College Employment of Young Men).
Temple Univ., Philadelphia, Pa. 25 Sep 74, 61p
PB-236 228/3WS PC$4.25/MF$2.25

For bibliographic citation see JOB TRAINING AND CAREER DEVELOPMENT

Rates of Return to Investment in Education at all Levels in the State of Nebraska.
Walter Allen Verdon.
Nebraska Univ., Lincoln. Jul 74, 410p DLMA-91-31-73-30-1
PB-236 248/1WS PC$10.50/MF$2.25

The objective of the study was to test the hypothesis that individuals and society have not invested efficiently in the various levels of formal schooling. The study was designed to test the null hypothesis on the basis of annual earnings, lifetime earnings, additional lifetime earnings, weeks worked, earnings by occupational classification, and internal rates of return. The study was constrained to estimation and analysis of the monetary costs and benefits entailed in individual and societal decisions to invest in the various levels of formal schooling.

Modeling, Behavior Change, and Rehabilitation.
Monroe A. Bruch, Joseph T. Kunce, Mark H. Thelen, and T. John Akamatsu.
Missouri Univ., Columbia. Regional Rehabilitation Research Inst. Jun 73, 88p Research Ser-7
PB-236 605/2WS PC$4.75/MF$2.25

Research findings on observational learning and imitation have considerable relevance to rehabilitation. The procedures developed in the laboratory and field situations can be readily adapted to many kinds of rehabilitation problems and to many settings. Specific applications to rehabilitation problems of the disabled and disadvantaged are such things as modifying academic achievement behavior, perceived client inadequacy, tolerance of pain, and health management. Modeling tactics provide techniques that can be effectively used in conjunction with more traditional learning approaches and with interpersonal, 'relationship,' approaches. The strategies may be elaborate, requiring the use of videotapes or films, or simple, requiring such things as client exposure to appropriate peer or rehabilitation staff models.

INTERNATIONAL RELATIONS

The Abstention Doctrine.
William Freeman.
North Carolina Univ., Chapel Hill. School of Law. Jun 74, 41p UNC-SG-74-07, NOAA-74082001
COM-74-11561/9WS PC$3.75/MF$2.25

The author examines in some depth the difficult and pliable Abstention Doctrine as a legal means of fishery conservation. He presents its historic development, its bi- and trilateral treaty applications, its failure to achieve general recognition in the general Conventional Law of the Sea, its advantages and shortcomings. Also considered is its possible utility, and/or trade-off value, as one contributing factor toward the achievement of consensus at the 1974 Caracas, and subsequent, Law of the Sea Conferences. Implicit is the recurrent truth that legal regulation of an area of human endeavor must often remain imprecise until technology and scientific knowledge develop to the point where specifics emerge which may safely be enacted into definitive law. The author concludes: 'Abstention could soften the road between unilateralism and true international control of fishery resources. If for no other reason, abstention deserves a place in international law.'

Current & Recommended

The Quality of Life Concept: A Potential New Tool for Decision-makers, Booz-Allen Public Adm. Svcs., Inc., Washington, D.C. 1973. 396 pp. PC $8/MF $1.45 ..... **Order PB-225-089/G.**
Explores the quality of life concept, defines it in terms of its components, and suggests quantitative approaches to its use in guiding public policy.

The New Grass Roots Government? Decentralization and Citizen Participation in Urban Areas. Advisory Commission on Intergovernmental Relations, Washington, D.C., 1972. 28 pp. PC $3/MF $1.45 ..... **Order PB-224-939/G.**
Analyzes various types of decentralization and citizen participation approaches; examines the degree to which they have been adopted by jurisdictions with different size, locational, and governmental characteristics; and probes official evaluations of decentralization/citizen participation experience.

Transportation for the Elderly and the Handicapped, Mark Battle & Assoc., 1973. 185 pp. PC $5.25/MF $1.45.
Order PB-225-285/G.
Identifies major constraints of the elderly and handicapped on the use of mass transit, including physical and psychological limitations, transportation costs, travel needs, information needs and other problems.

Task Analysis Handbook, Washington State Dept. of Personnel, Olympia, 1973. 76 pp. PC $3.75/MF $1.45.
Order PB-226-682/G.
A handy guide for writing task statements; gives worker function activity verbs as they relate to data, people and things, and scales for use in coding tasks for level of difficulty.

Suggestions for Individual Development Planning, Civil Service Commission, Washington, D.C., 1973. 26 pp. PC $3/MF $1.45.
Order PB-225-113/G.
Outlines basic principles of the individual development planning process and describes the role of each participant.

Editor's Choice

Special Graphites and Carbide-Graphite Composites Developed at LASL
Los Alamos Scientific Lab., New Mexico
1973. 67 pp. PC $5.45/MF $1.45 order LA-5147/G

Carbon Fibers: A Bibliography with Abstracts
National Technical Information Service, Springfield, Va.
1973. 108 pp. PC $20/MF $20 order COM-73-11355/G

Fatigue Properties of Graphite Composites
IIT Research Inst., Chicago, Ill.
1973. 137 pp. PC $5.45/MF $1.45 order AD-763-760/G

Physics and Chemistry of Glasses
Naval Research Lab., Wash., D.C.
1973. 215 pp. PC $6.75/MF $1.45 order AD-763-338/G

Engineering Data on New Aerospace Structural Materials
Battelle Columbus Labs., Ohio
1973. 148 pp. PC $5.45/MF $1.45 order AD-762-305/G

Guidelines for Development of a Quality Assurance Program: Reference Method for the Continuous Measurement of Carbon Monoxide in the Atmosphere
Research Triangle Inst., Research Triangle Park, N.C.
1973. 123 pp. PC $4.25/MF $1.45 order PB-222-512/G

Chemical Desulfurization of Coal: Report of Bench-Scale Developments
TRW Systems Group, Redondo Beach, Calif.
Vol. I 1973. 184 pp. PC $6/MF $1.45 order PB-221-405/G
Vol. II 1973. 86 pp. PC $4.85/MF $1.45 order PB-221-406/G

A Study of Oil Source Identification Techniques
Coast Guard, Wash., D.C.
1972. 67 pp. PC $4.50/MF $1.45 order AD-761-971/G

Cost-Effectiveness Review of Railroad Electrification
Pan-Technology Consulting Corp., Inc., Wash., D.C.
1973. 137 pp. PC $5.45/MF $1.45 order PB-222-053/G

A Study of the Decomposition Products of Polyurethane Foam Related to Aircraft Cabin Flash Fires
National Aviation Facilities Experimental Center, Atlantic City, N.J.
1973. 40 pp. PC $3.75/MF $1.45 order AD-763-327/G

Air Force Flight Dynamics Laboratory Fiscal Year 1974 Technical Objective Document
Air Force Flight Dynamics Lab., Wright-Patterson AFB, Ohio
1973. 97 pp. PC $4.85/MF $1.45 order AD-762-300/G

Performance Measurements on the NRTS IBM 360/75 Computer System
Aerojet Nuclear Co., Idaho Falls, Idaho
1973. 20 pp. PC $4/MF $1.45 order ANCR-1116/G

Day Care for School-Age Children
Unco, Inc., Tacoma, Wash.
1973. 173 pp. PC $4.75/MF $1.45 order PB-222-827/G

Survey of Dust Control Research
Bituminous Coal Research, Inc., Monroeville, Pa.
1973. 206 pp. PC $5.50/MF $1.45 order PB-222-831/G

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Goal Planning in	.....	.....	PB-236 641/7WS	.....
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Going Beyond the	.....	.....	AD-786 579/3WS	.....
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Intelligence Test	.....	.....	PB-235 518/8WS	.....
Job Satisfaction	.....	.....	PB-236 598/9WS	.....
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Legal Problems of	.....	.....	N74-32402/1WS	.....
Mass Transit Train	.....	.....	PB-236 001/4WS	.....
Mass Transit Train	.....	.....	PB-236 004/8WS	.....

SHORT TITLE	PAPER	FICHE	ORDER NUMBER	ROUTING
Minimum Wage Le	.....	.....	AD-786 639/5WS	.....
Modeling, Behavio	.....	.....	PB-236 605/2WS	.....
New Careers and	.....	.....	PB-236 484/2WS	.....
Open Space and	.....	.....	PB-235 121/1WS	.....
Parole Decision-M	.....	.....	PB-236 565/8WS	.....
Parole Decision-M	.....	.....	PB-236 566/6WS	.....
Parole Decision-M	.....	.....	PB-236 567/4WS	.....
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Parole Decision-M	.....	.....	PB-236 569/0WS	.....
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Some Thoughts	.....	.....	PB-236 772/0WS	.....
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Vocational Rehabil	.....	.....	PB-236 560/9WS	.....
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Which Way Out. Di	.....	.....	PB-236 640/9WS	.....
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March 1975

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Energy
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ADMINISTRATION

Order Number	
COM-73-11798	Construction Management (54) Nov 73
COM-74-10918	PERT (110) May 74
COM-74-11194	Technology Transfer (144) 1972-Jul 74
COM-74-11319	Urban Information Systems (196) 1970-Aug 74 Includes USAC reports
COM-74-11571	Productivity (126) Oct 74
NTIS/PS-74/112	Management Games (163) Nov 74
NTIS/PS-74/121	Inventory Control (195) 1970-Dec 74
NTIS/PS-74/122	Job Satisfaction (216) Dec 74
NTIS/PS-74/124	Production Planning and Scheduling (143) Dec 74
NTIS/PS-75/150	Time Series Forecasting and Prediction (96) Jan 75
NTIS/PS-75/276	Career Development. Part 1. Military Careers (143) Feb
NTIS/PS-75/277	Career Development. Part 2. Civilian Careers (186) Feb

AERONAUTICS AND AERODYNAMICS

Order Number	
COM-74-10919	Air Traffic Control Simulation Models (125) May 74
NTIS/PS-74/098	Airport Noise (113) Nov 74
NTIS/PS-75/036	Collision Avoidance Systems (156) Dec 74
NTIS/PS-75/115	Holographic Flow Visualization (53) Jan 75
NTIS/PS-75/116	Flow Visualization (106) Jan 75 Excludes shadowgraph, schlieren, and holographic techniques
NTIS/PS-75/164	Aircraft Wake Vortices (137) Dec 1974
NTIS/PS-75/224	Parachutes and Decelerators (103) 1970-Jan 75
NTIS/PS-75/318	Aircraft Sonic Boom. Part 1. Studies on Aircraft Flight and Design (99) Feb 75
NTIS/PS-75/319	Aircraft Sonic Boom. Part 2. Effects on Buildings (60) Feb 75
NTIS/PS-75/320	Aircraft Sonic Boom. Part 3. Biological Effects (52) Feb 75
NTIS/PS-75/332	Surface Effect Vehicles/Ships in Marine Environments (108) Jan 75
NTIS/PS-75/333	Surface Effect Vehicles and Surface Effect: General Studies. Vol. 1. 1964-1971 (134) Jan 75 Does not include marine environments
NTIS/PS-75/334	Surface Effect Vehicles and Surface Effect: General Studies. Vol. 2. 1972-1974 (67) Jan 75 Does not include marine environments

AERONAUTICS AND AERODYNAMICS (Cont.)

Order Number	
NTIS/PS-75/336	Flight Simulator Training (119) Feb 75

AGRICULTURE AND FOOD

Order Number	
COM-73-11709	Food Packaging and Storage (113) 1970-Sep 73
COM-74-10970	GRAS(Generally Recognized as Safe) Food Ingredients (184) Jun 74
COM-74-11192	Sewage and Organic Waste Irrigation (79) Jul 74
COM-74-11203	Animal Waste Pollution and Its Control (115) Jul 74
NTIS/PS-74/083	Food Processing Waste Treatment (167) Nov 74
NTIS/PS-74/119	Food Processing (207) Dec 74
NTIS/PS-75/057	Food Taste (137) Oct 74
NTIS/PS-75/068	Agricultural Resources Surveys (53) 1973-Jan 75
NTIS/PS-75/072	Ground Water Pollution. Part 2. Pollution From Irrigation and Fertilization (132) Jan 75
NTIS/PS-75/093	Fish Protein Concentrates (117) Jan 75
NTIS/PS-75/101	Air Pollution Effects on Plants (135) Jan 75
NTIS/PS-75/111	Fishery Law (126) Jan 75
NTIS/PS-75/304	Aquaculture. Part 1. Fish (212) Feb 75 Excludes studies on salmon
NTIS/PS-75/305	Aquaculture. Part 2. Shellfish (129) Feb 75
NTIS/PS-75/306	Aquaculture. Part 3. Salmon (63) Feb 75

ASTRONOMY AND ASTROPHYSICS

Order Number	
NTIS/PS-75/031	Mars Environment (93) 1971-Oct 74
NTIS/PS-75/134	Cosmic Rays (129) 1973-Jan 75
NTIS/PS-75/225	Quasars, Pulsars, Black Holes (170) Feb 75
NTIS/PS-75/229	Solar Eclipses (140) Feb 75
NTIS/PS-75/242	Cosmology (102) Feb 75

ATMOSPHERIC SCIENCES

Order Number

COM-73-11727 Cloud Seeding (134) Oct 73 Includes effects on water resources
NTIS/PS-75/008 Clear Air Turbulence (220) Dec 74
NTIS/PS-75/045 Atmospheric Echo Sounding (50) Dec 74
NTIS/PS-75/078 Weather Modification Effects and Management (117) Jan 75 Excludes theory and physics of cloud seeding and nucleation
NTIS/PS-75/099 Fog Dispersal (167) Jan 74

NTIS/PS-75/187 Hurricane Forecasting, Modification, and Research (174) Jan 75
NTIS/PS-75/228 The Chemistry and Physics of Ozone in the Stratosphere (91) Jan 75

NTIS/PS-75/231 Ice and Fog: Detection and Warning Systems (58) Dec 74
NTIS/PS-75/314 Automobile Air Pollution. Part 6. Atmospheric Motion (42) 1970-Dec 74

BEHAVIOR AND SOCIETY

Order Number

COM-74-10100 Juvenile Delinquency Prevention Programs (100) Dec 73
COM-74-10832 Blindness (80) Dec 73
COM-74-10928 Vocational Rehabilitation of the Physically Handicapped (78) May 74
COM-74-11376 Computer Aided Instruction (252) 1970-Aug 74
COM-74-11393 The Elderly (139) Sep 74

COM-74-11571 Productivity (126) Oct 74
NTIS/PS-74/110 Alcoholism (135) Nov 74
NTIS/PS-74/122 Job Satisfaction (216) Dec 74
NTIS/PS-74/125 Quality of Life in the Urban Environment (131) 1970-Dec 74
NTIS/PS-74/134 Ocean Law (123) Dec 74

NTIS/PS-75/002 Civil Insurgency (84) Jan 75
NTIS/PS-75/005 Rehabilitation of Criminal and Public Offenders (100) 1967-Oct 74
NTIS/PS-75/007 Disasters (131) Dec 74
NTIS/PS-75/012 Medicare and Medicaid Programs (64) Dec 74

NTIS/PS-75/032 Computational Linguistics (108) Jan 75

Order Number

NTIS/PS-75/034 Family Counseling (35) Jan 75
NTIS/PS-75/047 Crime Prevention and Enforcement Through Community Relations (72) Jan 75
NTIS/PS-75/052 Psycholinguistics (60) Jan 75
NTIS/PS-75/053 Speech Intelligibility (170) Jan 75

NTIS/PS-75/056 Behavior and Psychology as Related to Law Enforcement (103) Jan 75
NTIS/PS-75/058 Health Manpower (86) Jan 75 Excludes allied health personnel
NTIS/PS-75/062 Audiovisual Education (69) Dec 74
NTIS/PS-75/079 American Indians (122) Jan 75
NTIS/PS-75/082 Industrial Psychology (161) Jan 75

NTIS/PS-75/083 The Use of the Mass Media by Local and Regional Governments (58) Jan 75
NTIS/PS-75/087 Information Processing in Humans (221) Jan 75
NTIS/PS-75/102 Behavior and Physiological Effects of Noise. Vol 1. 1964-1972 (200) Jan 75
NTIS/PS-75/103 Behavior and Physiological Effects of Noise. Vol 2. 1973-1974 (72) Jan 75
NTIS/PS-75/131 Rehabilitation of the Physically Handicapped (119) 1968-Jan 75 Excludes reports sponsered solely by the Atomic Energy Commission

NTIS/PS-75/132 Rehabilitation of the Mentally Retarded (79) Jan 75
NTIS/PS-75/144 Driver Education (109) Jan 75
NTIS/PS-75/145 Probation and Parole (55) Jan 75
NTIS/PS-75/147 Drug Abuse (113) Jan 75
NTIS/PS-75/161 Effects of Fatigue on Human Behavior and Performance (104) Jan 75

NTIS/PS-75/168 Ghettos (69) Jan 75
NTIS/PS-75/195 Individualized Instruction (72) Jan 75
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NTIS/PS-75/253 Historical Background Studies of the National Park Service (168) Jan 75
NTIS/PS-75/261 Student Teacher Interaction (69) Feb 75
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NTIS/PS-75/277 Career Development. Part 2. Civilian Careers (186) Feb 75

NTIS/PS-75/281 Human Aggression (41) Feb 75

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Order Number	
NTIS/PS-75/290	Labor Relations (169) Feb 75 Excludes job satisfaction, bargaining, and productivity
NTIS/PS-75/291	Collective Bargaining, Wages, and Labor Contracts (55) Feb 75
NTIS/PS-75/297	Human Memory (130) Feb 75
NTIS/PS-75/298	Work Attitudes in the Military (98) Feb 75
NTIS/PS-75/300	Work Attitudes in the Civilian Sector (178) Feb 75
NTIS/PS-75/323	Population Mobility (127) Feb 75
NTIS/PS-75/335	Simulators in Education and Training (99) Feb 75
NTIS/PS-75/336	Flight Simulator Training (119) Feb 75

BIOMEDICAL TECHNOLOGY AND ENGINEERING

Order Number	
COM-73-11714	Artificial Intelligence (117) 1970-Sep 73
COM-73-11718	Bionics (35) 1970-Sep 73
COM-74-10106	Artificial Kidneys (117) 1968-Jan 74
COM-74-10123	Health Care Delivery (40) 1970-Jan 74
COM-74-10198	Mechanical Hearts (151) 1969-Oct 74
COM-74-10832	Blindness (80) Dec 73
COM-74-10855	Artificial Limbs (107) 1968-Apr 74
COM-74-10888	Facial and Dental Prosthetics (63) Apr 74
COM-74-11126	Biocompatible Materials (160) Jul 74
COM-74-11312	Computer Technology in Medicine (166) 1972-Jul 74
COM-74-11528	Health Services in Rural Areas (59) Aug 1974
NTIS/PS-75/010	Blood Preservation and Storage (203) Nov 74
NTIS/PS-75/012	Medicare and Medicaid Programs (64) Dec 74
NTIS/PS-75/039	Underwater Breathing Apparatus (130) Dec 74
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NTIS/PS-75/064	Robots (89) Jan 75
NTIS/PS-75/094	Biotelemetry (139) Nov 74
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NTIS/PS-75/171	Emergency Medical Services and Care (87) Jan 75
NTIS/PS-75/172	Night Vision and Dark Adaptation (78) Jan 75
NTIS/PS-75/173	Radiology (102) 1967-Jan 75
NTIS/PS-75/175	Ultrasonics in Medicine (39) Jan 75

Order Number

COM-74-10967 Coal Gasification (76) May 74
COM-74-11018 Chemical Analysis of Aerosols and Airborne Particulates (60) Jun 74 Excludes sampling and particle size analysis
COM-74-11529 Activated Carbon (190) Sep 74
NTIS/PS-74/109 Drag Reducing Fluids (134) 1969-Nov 74
NTIS/PS-74/111 Fire Resistant Fibers and Textiles (124) Dec 74

NTIS/PS-74/116 Liquid Crystals (182) Nov 74
NTIS/PS-74/117 Polycarboranes (63) Nov 74
NTIS/PS-74/118 Waste Processing and Pollution in the Chemical and Petrochemical Industries (172) Dec 74
NTIS/PS-74/133 Fly Ash (143) Dec 74
NTIS/PS-75/017 Sewage Treatment by Reverse Osmosis and Membrane Processes (39) Dec 74

NTIS/PS-75/041 Standard Reference Materials (118) Jan 75
NTIS/PS-75/048 Lubricating Oil Analysis for Wear Monitoring (46) Jan 74
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NTIS/PS-75/157 Corrosion in Desalination Plants (154) Dec 74
NTIS/PS-75/159 Laser Spectroscopy (126) 1970-Jan 75 Excludes Raman spectroscopy
NTIS/PS-75/160 Laser Raman Spectroscopy (66) 1970-Jan 74
NTIS/PS-75/163 Gas Scrubbers (156) Dec 74
NTIS/PS-75/193 Osmotic Desalting Membranes. Vol 2. 1973-1974 (89) Jan 75

NTIS/PS-75/194 Osmotic Desalting Membranes. Vol 1. 1964-1972 (120) Jan 75
NTIS/PS-75/206 Acrylic Resins. Part 1. Acrylonitrile Polymers (75) Dec 74
NTIS/PS-75/207 Acrylic Resins. Part 2. Methacrylate Polymers (146) Dec 74
NTIS/PS-75/208 Acrylic Resins. Part 3. Acrylates, Acrylamides, and General Studies (125) Dec 74
NTIS/PS-75/209 Mercury Pollution (113) Dec 74 Excludes toxicity and pollution effects

NTIS/PS-75/228 The Chemistry and Physics of Ozone in the Stratosphere (91) Jan 75
NTIS/PS-75/256 Fluidized Bed Combustion (66) Dec 74
NTIS/PS-75/257 The Chemistry of Silicone Resins (130) Jan 75
NTIS/PS-75/267 Lead Pollution (171) Jan 75 Excludes pollution effects and toxicology of lead
NTIS/PS-75/285 Hazardous Material Waste Disposal (92) Dec 74 Excludes radioactive wastes

CHEMISTRY (Cont.)

Order Number	
NTIS/PS-75/286	Hazardous Materials Transportation (126) Dec 74 Excludes radioactive wastes
NTIS/PS-75/289	Chemical Analysis of Steels (110) Feb 75
NTIS/PS-75/310	Automobile Air Pollution. Part 2. Exhaust Analysis (33) 1970-Dec 74

CIVIL AND STRUCTURAL ENGINEERING

Order Number	
COM-73-10242	Stress Analysis of Cracks (129) Jan 74
COM-73-11378	Construction Equipment (99) Jul 73
COM-73-11389	Construction Materials (90) Jul 73
COM-73-11711	Cold Weather Construction (99) Oct 73
COM-73-11798	Construction Management (54) Nov 73
COM-73-11803	Erosion Control Methodology (68) Oct 73
COM-74-10889	Marine Fouling (125) 1969-May 74
COM-74-11141	Earthquake Engineering: Buildings, Bridges, Dams, and Related Structures (190) 1964-May 74
COM-74-11201	Flood Control (191) 1972-Jul 74
COM-74-11535	Concrete Polymer Composites (72) Oct 74
NTIS/PS-74/096	Tunnel Construction (138) Nov 74
NTIS/PS-75/050	Environmental and Ecological Effects of Dredging (85) Jan 75
NTIS/PS-75/061	De-icing Materials and Techniques for Roads and Runways (140) Jan 75
NTIS/PS-75/076	Bridges: Construction and Construction Materials (104) Dec 74
NTIS/PS-75/180	Highway Beautification (46) Jan 75
NTIS/PS-75/198	Permafrost. Part 2. Structural Engineering (174) Jan 75
NTIS/PS-75/211	Prestressed Concrete Technology (161) Dec 74
NTIS/PS-75/255	Foundations in Marine Environments (64) Dec 74
NTIS/PS-75/282	Structural Foundations in Soils, Ice, Snow, and Permafrost. Vol. 1. 1964-1971 (135) Jan 75 Excludes subway and seabed construction
NTIS/PS-75/283	Structural Foundations in Soils, Ice, Snow, and Permafrost. Vol. 2. 1972-1974 (57) Jan 75 Excludes subway and seabed construction

COMMUNICATION

Order Number	
COM-73-11580	Walsh Functions (31) Sep 73
COM-73-11675	Cable Television (55) 1970-Feb 74
COM-74-10102	Information Theory and Communication (78) Dec 73
COM-74-10122	Light Communication Systems (95) 1971-Oct 73 Includes equipment
COM-74-10869	Fiber Optics (102) 1969-Apr 74
COM-74-11435	Speech Recognition by Computer (142) Sep 74
COM-74-11572	Computer Networks (153) 1969-Oct 74
NTIS/PS-74/087	Telephone Systems (181) Dec 74
NTIS/PS-74/101	Applications of the Fast Fourier Transform (144) 1970-Nov 74
NTIS/PS-75/030	Vocoders (87) Jan 75
NTIS/PS-75/035	Electroluminescent Display Devices (105) Jan 75
NTIS/PS-75/037	Underwater Voice Communication Systems (78) Dec 74
NTIS/PS-75/052	Psycholinguistics (60) Jan 75
NTIS/PS-75/053	Speech Intelligibility (170) Jan 75
NTIS/PS-75/067	Data Compression (89) Jan 75
NTIS/PS-75/073	Signs and Display Systems: Graphic Design and Human Engineering (92) Jan 75
NTIS/PS-75/083	The Use of the Mass Media by Local and Regional Governments (58) Jan 75
NTIS/PS-75/142	Modems (92) Jan 75
NTIS/PS-75/178	Frequency Allocation and Management (100) Jan 75
NTIS/PS-75/188	Band Pass Filters (104) Jan 75
NTIS/PS-75/248	Acoustic Surface Waves. Vol. 1. 1964-1972 (75) Jan 75
NTIS/PS-75/249	Acoustic Surface Waves. Vol. 2. 1973-1974 (137) Jan 75
NTIS/PS-75/250	Microwave Communication (163) Jan 75.
NTIS/PS-75/302	Antenna Arrays. Vol 2. 1972-1974 (93) Feb 75 Excludes phased arrays
NTIS/PS-75/303	Antenna Arrays. Vol 1. 1964-1971 (219) Feb 75 Excludes phased arrays
NTIS/PS-75/337	Phased Arrays. Vol 1. 1964-1971 (141) Feb 75
NTIS/PS-75/338	Phased Arrays. Vol 2. 1972-1974 (103) Feb 75

COMPUTERS, CONTROL AND INFORMATION THEORY

Order Number	
COM-73-11580	Walsh Functions (31) Sep 73
COM-73-11714	Artificial Intelligence (117) 1970-Sep 73
COM-73-11717	Machine Translation (100) Sep 73 Covers several foreign languages
COM-74-10102	Information Theory and Communication (78) Dec 73
COM-74-10124	Automated Text Editing (57) Dec 73
COM-74-11017	Computer Information Security and Protection (121) Jun 74
COM-74-11312	Computer Technology in Medicine (166) 1972-Jul 74
COM-74-11433	Control Theory (203) 1970-Jul 74
COM-74-11435	Speech Recognition by Computer (142) Sep 74
COM-74-11454	The Use of Computers in Solving Mathematical Problems (172) Jun 71-Sep 74
COM-74-11572	Computer Networks (153) 1969-Oct 74
NTIS/PS-74/084	Pattern Recognition (97) Nov 74
NTIS/PS-74/095	Computer Storage Management (118) Nov 74
NTIS/PS-74/101	Applications of the Fast Fourier Transform (144) 1970-Nov 74
NTIS/PS-74/102	Minicomputers (215) Nov 74
NTIS/PS-75/026	Automata Theory (132) December 74
NTIS/PS-75/029	Logic Design (116) Dec 74
NTIS/PS-75/035	Electroluminescent Display Devices (105) Jan 75
NTIS/PS-75/063	Computer Performance Evaluation (40) Jan 75
NTIS/PS-75/064	Robots (89) Jan 75
NTIS/PS-75/065	Network Flows (126) Jan 75
NTIS/PS-75/067	Data Compression (89) Jan 75
NTIS/PS-75/086	Magnetic Bubble Domains (42) Jan 75
NTIS/PS-75/121	Symbolic Programming (41) Jan 75
NTIS/PS-75/128	Switching Circuits (111) 1970-Dec 74
NTIS/PS-75/158	Interactive Computer Graphics (126) 1970-Jan 75
NTIS/PS-75/251	Microcomputers (59) Feb 75
NTIS/PS-75/274	Semiconductor Computer Storage (89) Jan 75

DETECTION AND COUNTERMEASURES

Order Number	
COM-73-11719	Light Detection and Ranging(LIDAR) (105) Oct 73
COM-74-10868	Nonlinear Acoustics (56) 1966-Apr 74

DETECTION AND COUNTERMEASURES (Cont.)

Order Number

NTIS/PS-75/055 Night Vision Devices (95) Jan 75
NTIS/PS-75/075 Infrared Upconversion (48) Dec 74
NTIS/PS-75/104 Remote Sensing for Natural Resource, Environmental, and Regional Planning (91) 1973-Jan 75

NTIS/PS-75/105 Instrumentation and Data Processing Used in the Earth Resources Technology Satellite (80) 1973-Dec 74
NTIS/PS-75/165 Electronic Countermeasures and Electronic Counter Countermeasures (91) Jan 75
NTIS/PS-75/231 Ice and Fog: Detection and Warning Systems (58) Dec 74
NTIS/PS-75/302 Antenna Arrays. Vol 2. 1972-1974 (93) Feb 75 Excludes phased arrays
NTIS/PS-75/303 Antenna Arrays. Vol 1. 1964-1971 (219) Feb 75 Excludes phased arrays

NTIS/PS-75/326 Seismic Detection: Part 1. General Studies (82) Jan 75

NTIS/PS-75/327 Seismic Detection. Part 2. Nuclear Events--1970-1972--Vol. 1. (135) Jan 75
NTIS/PS-75/328 Seismic Detection. Part 2. Nuclear Events--1973-1974--Vol. 2. (124) Jan 75
NTIS/PS-75/337 Phased Arrays. Vol 1. 1964-1971 (141) Feb 75
NTIS/PS-75/338 Phased Arrays. Vol 2. 1972-1974 (103) Feb 75

ELECTROTECHNOLOGY

Order Number

COM-73-11705 Amorphous Semiconductors (143) 1971-Sep 73
COM-73-11797 Light Emitting Diodes (110) 1968-Oct 73
COM-74-10869 Fiber Optics (102) 1969-Apr 74
NTIS/PS-75/035 Electroluminescent Display Devices (105) Jan 75
NTIS/PS-75/055 Night Vision Devices (95) Jan 75

NTIS/PS-75/128 Switching Circuits (111) 1970-Dec 74
NTIS/PS-75/149 IMPATT Diodes (81) Jan 75
NTIS/PS-75/154 Phase Shifters (119) Jan 75
NTIS/PS-75/177 Schottky Barrier Devices (114) Jan 75
NTIS/PS-75/188 Band Pass Filters (104) Jan 75

NTIS/PS-75/190 Electron Beam Semiconductor Devices (38) Jan 75
NTIS/PS-75/227 Gunn Effect Devices (140) Jan 75
NTIS/PS-75/233 Printed Circuits. Vol 1. 1964-1971 (109) Jan 75
NTIS/PS-75/234 Printed Circuits. Vol 2. 1972-1974 (67) Jan 75
NTIS/PS-75/239 Strip Transmission Lines (111) Jan 75

ELECTROTECHNOLOGY (Cont.)

Order Number	
NTIS/PS-75/246	Beam Lead Microelectronics (36) Jan 75
NTIS/PS-75/247	Integrated Circuit Reliability (173) Jan 75
NTIS/PS-75/248	Acoustic Surface Waves. Vol. 1. 1964-1972 (75) Jan 75
NTIS/PS-75/249	Acoustic Surface Waves. Vol. 2. 1973-1974 (137) Jan 75
NTIS/PS-75/258	Lightning, Surge, and Transient Protection (88) Jan 75
NTIS/PS-75/274	Semiconductor Computer Storage (89) Jan 75
NTIS/PS-75/275	Charge Transfer and Transferred Electron Devices (57) Jan 75
NTIS/PS-75/288	Transistor Amplifiers (93) Jan 75
NTIS/PS-75/302	Antenna Arrays. Vol 2. 1972-1974 (93) Feb 75 Excludes phased arrays
NTIS/PS-75/303	Antenna Arrays. Vol 1. 1964-1971 (219) Feb 75 Excludes phased arrays
NTIS/PS-75/324	Microwave Oscillators. Vol 1. 1964-1974 (118) Jan 75
NTIS/PS-75/325	Microwave Oscillators. Vol 2. 1972-1974 (73) Jan 75
NTIS/PS-75/337	Phased Arrays. Vol 1. 1964-1971 (141) Feb 75
NTIS/PS-75/338	Phased Arrays. Vol 2. 1972-1974 (103) Feb 75

ENERGY

Order Number	
COM-73-11692	Thermionics (117) 1970-Sep 73
COM-74-10739	Geothermal Energy (40) Apr 74
COM-74-10935	Desulfurization of Coal and Petroleum (76) May 74 Excludes flue gas and other post-combustion sulfur control
COM-74-10967	Coal Gasification (76) May 74
COM-74-10969	Oil Shale (89) Jun 74
COM-74-11193	Magnetohydrodynamic Generators in Power Generation (68) Jul 74
COM-74-11533	Fuel Cells (270) 1969-Sep 74
NTIS/PS-74/103	Offshore Drilling (96) 1966-Nov 74 Includes environmental aspects
NTIS/PS-74/131	Nuclear Fusion (146) 1971-Dec 74 Excludes reports solely sponsered by the Atomic Energy Commission
NTIS/PS-75/070	Design and Applications of Flywheels (57) Jan 75
NTIS/PS-75/089	Cadmium Sulfide Solar Cells (161) Jan 75
NTIS/PS-75/137	Optical Coatings for Solar Cells and Solar Collectors (51) Jan 75

ENERGY (Cont.)

Order Number

NTIS/PS-75/214 Energy Conservation (91) Jan 75
NTIS/PS-75/215 Waste Heat Utilization (116) Jan 75 Includes total energy systems
NTIS/PS-75/254 Oil Recovery (86) Jan 75 Excludes offshore drilling

NTIS/PS-75/316 Heat Pipes. Vol 1. 1964-1972 (175) Feb 75
NTIS/PS-75/317 Heat Pipes. Vol 2. 1973-1974 (122) Feb 75
NTIS/PS-75/342 Fuel Consumption. Part 2. Transportation (93) Feb 75
NTIS/PS-75/343 Fuel Consumption. Part 1. Industrial, Residential, and General Studies (75) Feb 75
NTIS/PS-75/345 Solar Heating and Air Conditioning (71) Jan 75

NTIS/PS-75/346 Solar Electric Power Generation (94) Jan 75
NTIS/PS-75/347 Solar Collectors and Concentrators (57) Jan 75 Excludes spacecraft application
NTIS/PS-75/348 Wind Power (85) Jan 75

ENVIRONMENTAL POLLUTION AND CONTROL

Order Number

COM-73-11463 Odor Pollution (92) Aug 73
COM-73-11501 Planning and Impact of Water Resource Programs (110) Jul 73
COM-73-11585 Biochemical Oxygen Demand (132) Oct 73
COM-73-11695 Effects of Land Use and Urbanization on Water Resources (79) 1972-Sep 73
COM-73-11707 Aeration Systems and Processes (101) Sep 73 Covers sewage lagoons and mechanical aeration of reservoirs

COM-73-11712 Septic Tanks (56) Sep 73
COM-73-11719 Light Detection and Ranging(LIDAR) (105) Oct 73
COM-73-11804 Sulfur Dioxide Control (150) Nov 73
COM-74-10312 Salt Marshes (34) Dec 73
COM-74-10935 Desulfurization of Coal and Petroleum (76) May 74 Excludes flue gas and other post-combustion sulfur control

COM-74-10938 Water Quality Modeling (158) May 74
COM-74-10951 Oil Spill Removal (114) May 74
COM-74-10969 Oil Shale (89) Jun 74
COM-74-10971 Highway Traffic Noise (73) Jun 74
COM-74-11018 Chemical Analysis of Aerosols and Airborne Particulates (60) Jun 74 Excludes sampling and particle size analysis

ENVIRONMENTAL POLLUTION AND CONTROL (Cont.)

Order Number	
COM-74-11057	Sewage Effects in Marine and Estuarine Environments (112) Jun 74
COM-74-11140	Metal Waste Reclamation (146) Jul 74
COM-74-11192	Sewage and Organic Waste Irrigation (79) Jul 74
COM-74-11203	Animal Waste Pollution and Its Control (115) Jul 74
COM-74-11265	Ocean Waste Disposal (131) Aug 74
COM-74-11360	Air Quality Monitoring (121) 1970-Jul 74
COM-74-11529	Activated Carbon (190) Sep 74
NTIS/PS-74/083	Food Processing Waste Treatment (167) Nov 74
NTIS/PS-74/088	Supertankers and Superports (60) Nov 74 Includes environmental considerations
NTIS/PS-74/089	Nitrogen Oxide Air Pollution Studies (152) Nov 74
NTIS/PS-74/090	Eutrophication (254) Nov 74
NTIS/PS-74/091	Air Pollution Economics (202) 1970-Nov 74
NTIS/PS-74/092	Solid Waste Disposal Economics (76) Nov 74
NTIS/PS-74/093	Noise Pollution Economics (23) Nov 74
NTIS/PS-74/094	Water Pollution Economics (199) Nov 74 Excludes sewage treatment
NTIS/PS-74/097	Activated Sludge Treatment (235) Nov 74
NTIS/PS-74/098	Airport Noise (113) Nov 74
NTIS/PS-74/099	Water Rights and Water Law (147) Nov 74
NTIS/PS-74/100	Water Pollution in Estuaries and Coastal Zones (153) Nov 74 Excludes specific biological and oceanographic studies
NTIS/PS-74/103	Offshore Drilling (96) 1966-Nov 74 Includes environmental aspects
NTIS/PS-74/104	Urban Air Pollution (153) 1970-Nov 74
NTIS/PS-74/106	Urban Noise Pollution (66) 1970-Nov 74
NTIS/PS-74/107	Urban Sewage Treatment Planning (134) 1970-Nov 74
NTIS/PS-74/108	Urban Storm Sewers and Water Runoff (229) Nov 74
NTIS/PS-74/113	Air Pollution Effects on Materials (57) Dec 74
NTIS/PS-74/118	Waste Processing and Pollution in the Chemical and Petrochemical Industries (172) Dec 74
NTIS/PS-74/125	Quality of Life in the Urban Environment (131) 1970-Dec 74
NTIS/PS-74/129	Automatic Acquisition of Water Quality Data (116) 1970-Dec 74
NTIS/PS-74/133	Fly Ash (143) Dec 74
NTIS/PS-74/134	Ocean Law (123) Dec 74
NTIS/PS-74/135	DDT, DDD, and DDE Pesticides (150) Dec 74
NTIS/PS-75/009	Toxic Effects of Pesticides (143) Dec 74

Order Number

NTIS/PS-75/017 Sewage Treatment by Reverse Osmosis and Membrane Processes (39) Dec 74

NTIS/PS-75/019 Asbestos and Silicate Pollution (91) Dec 74 Includes silicosis and asbestosis

NTIS/PS-75/020 Cadmium Pollution (101) Dec 74

NTIS/PS-75/021 Beryllium Pollution (53) Dec 74

NTIS/PS-75/022 Industrial Hazards Due to Atmospheric Factors (181) 1970-Sept 74

NTIS/PS-75/024 Bioindicators of Pollution (119) Nov 74

NTIS/PS-75/046 Acid Mine Drainage (137) Jan 75

NTIS/PS-75/050 Environmental and Ecological Effects of Dredging (85) Jan 75

NTIS/PS-75/054 Strip Mining (101) Jan 75

NTIS/PS-75/060 Maneuvering Aircraft: Noise Pollution and Control (102) Jan 75

NTIS/PS-75/069 Pollution and Its Control In the Paper and Pulp Industry (145) Jan 75

NTIS/PS-75/071 Ground Water Pollution. Part 1. General Studies (133) Jan 74 Excludes studies dealing with irrigation and fertilization

NTIS/PS-75/072 Ground Water Pollution. Part 2. Pollution From Irrigation and Fertilization (132) Jan 75

NTIS/PS-75/080 Textile Processing Wastes (59) Jan 75

NTIS/PS-75/088 Ecosystem Models (144) Jan 74

NTIS/PS-75/101 Air Pollution Effects on Plants (135) Jan 75

NTIS/PS-75/102 Behavior and Physiological Effects of Noise. Vol 1. 1964-1972 (200) Jan 75

NTIS/PS-75/103 Behavior and Physiological Effects of Noise. Vol 2. 1973-1974 (72) Jan 75

NTIS/PS-75/104 Remote Sensing for Natural Resource, Environmental, and Regional Planning (91) 1973-Jan 75

NTIS/PS-75/107 Ecology of Insecticide Water Pollution. Vol 1. 1974 (62) Jan 75

NTIS/PS-75/108 Ecology of Insecticide Water Pollution. Vol 2. 1964-1973 (203) Jan 75

NTIS/PS-75/112 Coal Mine Waste (51) Dec 74

NTIS/PS-75/118 The Biological Effects of Oil Spills (107) Jan 75 Excludes biodeterioration

NTIS/PS-75/129 Bacterial Pollution of Water (147) Jan 75

NTIS/PS-75/139 Diesel Engine Exhaust (86) Jan 75

NTIS/PS-75/152 Biodeterioration of Oil Spills (81) Jan 74

NTIS/PS-75/156 Water Pollution Detection (166) 1970-Jan 75

NTIS/PS-75/163 Gas Scrubbers (156) Dec 74

Order Number

NTIS/PS-75/184 Regional and Urban Solid Waste Disposal. Part 1. Management Planning (81) Jan 75

NTIS/PS-75/185 Regional and Urban Solid Waste Disposal. Part 2. Local Case Studies (110) Jan 75

NTIS/PS-75/186 Regional and Urban Solid Waste Disposal. Part 3. Handling and Disposal Technology (84) Jan 75

NTIS/PS-75/202 Financing and Taxation For Urban Control of Pollution (111) Jan 75

NTIS/PS-75/209 Mercury Pollution (113) Dec 74 Excludes toxicity and pollution effects

NTIS/PS-75/210 Biological Effects of Mercury Pollution (112) Dec 74

NTIS/PS-75/215 Waste Heat Utilization (116) Jan 75 Includes total energy systems

NTIS/PS-75/218 Thermal Pollution. Part 1. Control Techniques and General Studies (85) Jan 75 Excludes waste heat recovery

NTIS/PS-75/219 Thermal Pollution. Part 2. Biological Effects (171) Jan 75

NTIS/PS-75/220 Thermal Pollution. Part 3. Hydrology and Hydrodynamics (124) Jan 75

NTIS/PS-75/228 The Chemistry and Physics of Ozone in the Stratosphere (91) Jan 75

NTIS/PS-75/252 Sewage Sludge Disposal (146) Dec 74

NTIS/PS-75/256 Fluidized Bed Combustion (66) Dec 74

NTIS/PS-75/267 Lead Pollution (171) Jan 75 Excludes pollution effects and toxicology of lead

NTIS/PS-75/268 Biological Effects of Lead Pollution (109) Jan 75

NTIS/PS-75/285 Hazardous Material Waste Disposal (92) Dec 74 Excludes radioactive wastes

NTIS/PS-75/286 Hazardous Materials Transportation (126) Dec 74 Excludes radioactive wastes

NTIS/PS-75/309 Automobile Air Pollution. Part 1. Abatement Through Management and Planning (89) 1970-Jan 75

NTIS/PS-75/310 Automobile Air Pollution. Part 2. Exhaust Analysis (33) 1970-Dec 74

NTIS/PS-75/311 Automobile Air Pollution. Part 3. Control Equipment (100) 1970-Dec 74

NTIS/PS-75/312 Automobile Air Pollution. Part 4. New Automotive Engines (60) 1970-Dec 74

NTIS/PS-75/313 Automobile Air Pollution. Part 5. Automotive Fuels (48) 1970-Dec 74

NTIS/PS-75/314 Automobile Air Pollution. Part 6. Atmospheric Motion (42) 1970-Dec 74

NTIS/PS-75/318 Aircraft Sonic Boom. Part 1. Studies on Aircraft Flight and Design (99) Feb 75

NTIS/PS-75/319 Aircraft Sonic Boom. Part 2. Effects on Buildings (60) Feb 75

ENVIRONMENTAL POLLUTION AND CONTROL (Cont.)

Order Number	
NTIS/PS-75/320	Aircraft Sonic Boom. Part 3. Biological Effects (52) Feb 75

INDUSTRIAL AND MECHANICAL ENGINEERING

Order Number	
COM-73-11958	Applications of Holography (123) 1970-Nov 73
COM-74-11223	Mine Safety (158) 1972-Jul 74
NTIS/PS-74/124	Production Planning and Scheduling (143) Dec 74
NTIS/PS-75/022	Industrial Hazards Due to Atmospheric Factors (181) 1970-Sept 74
NTIS/PS-75/041	Standard Reference Materials (118) Jan 75
NTIS/PS-75/048	Lubricating Oil Analysis for Wear Monitoring (46) Jan 74
NTIS/PS-75/070	Design and Applications of Flywheels (57) Jan 75
NTIS/PS-75/082	Industrial Psychology (161) Jan 75
NTIS/PS-75/123	Metrication in the United States (72) Dec 74
NTIS/PS-75/133	Fire Alarms and Fire Detectors (96) Jan 75
NTIS/PS-75/155	Plasma and Flame Spraying (129) Jan 75
NTIS/PS-75/162	Metal Drawing (43) Jan 75
NTIS/PS-75/166	High Energy Rate Forming. Part 1 (68) Jan 75 Excludes explosive forming
NTIS/PS-75/167	High Energy Rate Forming. Part 2. Explosive Forming (104) Jan 75
NTIS/PS-75/204	Fluid Control Devices. Vol 1. 1964-1971 (188) Dec 74
NTIS/PS-75/205	Fluid Control Devices. Vol 2. 1972-1974 (104) Dec 74
NTIS/PS-75/223	Ferrous Metal Casting (173) Dec 74
NTIS/PS-75/226	Electron Beam Welding (131) Jan 75
NTIS/PS-75/243	Gas Bearings (124) 1970-Jan 75
NTIS/PS-75/244	Use of Ultrasonics in Manufacturing Procedures (89) Dec 74
NTIS/PS-75/270	Nondestructive Ultrasonic Testing and Inspection. Vol. 1. 1964-1971 (188) Jan 75
NTIS/PS-75/271	Nondestructive Ultrasonic Testing and Inspection. Vol. 2. 1972-1974 (165) Jan 75
NTIS/PS-75/284	Shipborne Containers and Containerization (100) Jan 75
NTIS/PS-75/316	Heat Pipes. Vol 1. 1964-1972 (175) Feb 75
NTIS/PS-75/317	Heat Pipes. Vol 2. 1973-1974 (122) Feb 75
NTIS/PS-75/330	Electrodeposition. Vol 1. 1964-1971 (97) Jan 75

INDUSTRIAL AND MECHANICAL ENGINEERING (Cont.)

Order Number	
NTIS/PS-75/331	Electrodeposition. Vol 2. 1972-1974 (110) Jan 75
NTIS/PS-75/343	Fuel Consumption. Part 1. Industrial, Residential, and General Studies (75) Feb 75

LIBRARY AND INFORMATION SCIENCES

Order Number	
COM-73-11717	Machine Translation (100) Sep 73 Covers several foreign languages
COM-74-10124	Automated Text Editing (57) Dec 73
NTIS/PS-75/085	Biomedical Information Systems (123) Jan 75
NTIS/PS-75/146	Copyrights (56) Jan 75
NTIS/PS-75/189	User Needs in Documentation and Information (60) Jan 75
NTIS/PS-75/269	Records Management (170) Feb 75

MATERIALS SCIENCES

Order Number	
COM-73-11388	Polytetrafluoroethylene (Teflon) (58) Jul 73
COM-74-10831	Metal Matrix Composites (114) 1971-Mar 74
COM-74-10854	Boron Reinforced Composites (128) 1972-May 74
COM-74-10889	Marine Fouling (125) 1969-May 74
COM-74-11140	Metal Waste Reclamation (146) Jul 74
COM-74-11526	Carbon and Graphite Materials. Part 1. Carbon Fibers and Carbon Fiber Composites (278) Sep 74
COM-74-11527	Carbon and Graphite Materials. Part 2. Carbon and Graphite Composites (149) Sep 74 Excludes carbon fibers
COM-74-11529	Activated Carbon (190) Sep 74
NTIS/PS-74/109	Drag Reducing Fluids (134) 1969-Nov 74
NTIS/PS-74/111	Fire Resistant Fibers and Textiles (124) Dec 74
NTIS/PS-74/113	Air Pollution Effects on Materials (57) Dec 74
NTIS/PS-74/133	Fly Ash (143) Dec 74
NTIS/PS-75/040	Adhesives (123) 1970-Jan 75
NTIS/PS-75/041	Standard Reference Materials (118) Jan 75
NTIS/PS-75/048	Lubricating Oil Analysis for Wear Monitoring (46) Jan 74

Order Number

NTIS/PS-75/049 Hydrogen Embrittlement of Metals (185) Jan 75
NTIS/PS-75/051 Wood Bonding (96) Jan 75
NTIS/PS-75/084 Combustion of Plastics and Elastomers (67) Jan 75
NTIS/PS-75/109 Reinforced Plastics. Part 1. Fiberglass Reinforcement (151) Jan 75
NTIS/PS-75/110 Reinforced Plastics. Part 2. Boron, Carbon, and Other Reinforcing Materials (152) Jan 75

NTIS/PS-75/113 Solid Lubricants (109) Jan 75
NTIS/PS-75/122 Highway Markings (64) Dec 74
NTIS/PS-75/126 Gas Turbines, General: Corrosion and Erosion (141) Dec 74 Excludes turbine blades
NTIS/PS-75/127 Turbine Blades: Corrosion and Erosion (78) Dec 74
NTIS/PS-75/136 Lightweight Armor (106) Jan 75

NTIS/PS-75/137 Optical Coatings for Solar Cells and Solar Collectors (51) Jan 75
NTIS/PS-75/140 Seals and Gaskets (180) 1970-Jan 75
NTIS/PS-75/143 Sea Water Corrosion (165) Dec 74
NTIS/PS-75/155 Plasma and Flame Spraying (129) Jan 75
NTIS/PS-75/157 Corrosion in Desalination Plants (154) Dec 74

NTIS/PS-75/179 Superalloys (172) Dec 74
NTIS/PS-75/181 Carbon and Graphite Materials. Part 3. Graphite Research (148) Jan 75
NTIS/PS-75/182 Carbon and Graphite Materials. Part 4. Carbon Research (67) Jan 75
NTIS/PS-75/183 Carbon and Graphite Materials. Part 5. Glassy Carbon (35) Dec 74
NTIS/PS-75/192 Cryogenic Properties of Aluminum and Aluminum Alloys (70) Jan 75

NTIS/PS-75/206 Acrylic Resins. Part 1. Acrylonitrile Polymers (75) Dec 74
NTIS/PS-75/207 Acrylic Resins. Part 2. Methacrylate Polymers (146) Dec 74
NTIS/PS-75/208 Acrylic Resins. Part 3. Acrylates, Acrylamides, and General Studies (125) Dec 74
NTIS/PS-75/212 Ablation and Ablative Materials (121) Jan 75
NTIS/PS-75/217 Fracture of Ceramics (147) Dec 74

NTIS/PS-75/221 Fiberboard and Particleboard (75) Jan 75
NTIS/PS-75/223 Ferrous Metal Casting (173) Dec 74
NTIS/PS-75/226 Electron Beam Welding (131) Jan 75
NTIS/PS-75/241 Cathodic Protection (135) Dec 74
NTIS/PS-75/257 The Chemistry of Silicone Resins (130) Jan 75

MATERIALS SCIENCES (Cont.)

Order Number

NTIS/PS-75/289 Chemical Analysis of Steels (110) Feb 75
NTIS/PS-75/294 Cavitation. Part 3. Corrosion and Erosion (83) Feb 75
Excludes turbine cavitation
NTIS/PS-75/295 Cavitation. Part 4. Cavitation Flow and Erosion in Turbines (60) Feb 75
NTIS/PS-75/330 Electrodeposition. Vol 1. 1964-1971 (97) Jan 75
NTIS/PS-75/331 Electrodeposition. Vol 2. 1972-1974 (110) Jan 75

MATHEMATICAL SCIENCES

Order Number

COM-74-11454 The Use of Computers in Solving Mathematical Problems (172) Jun 71-Sep 74
COM-74-11499 Numerical Methods in Fluid Flow Problems (139) Sep 74
NTIS/PS-75/027 Integration of Partial Differential Equations (121) 1970-Nov 74
NTIS/PS-75/028 Integration of Nonlinear Differential Equations (78) 1970-Nov 74
NTIS/PS-75/065 Network Flows (126) Jan 75

NTIS/PS-75/066 Experimental Design (100) Jan 75
NTIS/PS-75/150 Time Series Forecasting and Prediction (96) Jan 75

MEDICINE AND BIOLOGY

Order Number

COM-73-11881 Toxicity of Gaseous Halocarbons (57) Nov 73
COM-74-10105 Antineoplastic Agents (136) 1970-Jan 74
COM-74-10832 Blindness (80) Dec 73
COM-74-10928 Vocational Rehabilitation of the Physically Handicapped (78) May 74
COM-74-10970 GRAS(Generally Recognized as Safe) Food Ingredients (184) . Jun 74

COM-74-11057 Sewage Effects in Marine and Estuarine Environments (112) Jun 74
COM-74-11312 Computer Technology in Medicine (166) 1972-Jul 74
NTIS/PS-74/086 Carcinogens (134) Sep 74
NTIS/PS-74/114 Sickle Cell Anemia (35) Nov 74
NTIS/PS-74/115 Hepatitis and Blood Transfusions (48) Nov 74

Order Number

NTIS/PS-74/126 Immunologic Diseases (199) Dec 74
NTIS/PS-74/127 Transplantation Immunology (94) 1970-Dec 74
NTIS/PS-74/128 Vaccines and Immunity (169) 1970-Dec 74
NTIS/PS-74/135 DDT, DDD, and DDE Pesticides (150) Dec 74
NTIS/PS-75/009 Toxic Effects of Pesticides (143) Dec 74

NTIS/PS-75/011 Biological Effects of Laser Radiation (169) Jan 75
NTIS/PS-75/012 Medicare and Medicaid Programs (64) Dec 74
NTIS/PS-75/013 Molecular Biology (91) 1968-Oct 74
NTIS/PS-75/019 Asbestos and Silicate Pollution (91) Dec 74 Includes silicosis and asbestosis
NTIS/PS-75/022 Industrial Hazards Due to Atmospheric Factors (181) 1970-Sept 74

NTIS/PS-75/023 Epilepsy (59) Nov 74
NTIS/PS-75/024 Bioindicators of Pollution (119) Nov 74
NTIS/PS-75/025 Biofeedback (35) Jan 75
NTIS/PS-75/033 Stress Factors on Pilot Performance (65) Nov 74
NTIS/PS-75/043 The Use of Dogs to Detect Explosives and Narcotics (24) Jan 75

NTIS/PS-75/085 Biomedical Information Systems (123) Jan 75
NTIS/PS-75/087 Information Processing in Humans (221) Jan 75
NTIS/PS-75/088 Ecosystem Models (144) Jan 74
NTIS/PS-75/090 Congenital Abnormalities (50) Jan 75
NTIS/PS-75/091 Biological Pest Control (77) 1966-Jan 75

NTIS/PS-75/092 Endangered Species (29) Dec 74
NTIS/PS-75/093 Fish Protein Concentrates (117) Jan 75
NTIS/PS-75/095 Venereal Diseases (46) Oct 74
NTIS/PS-75/096 Contraceptives and Birth Control (49) Nov 74
NTIS/PS-75/100 Interferon (157) Jan 75

NTIS/PS-75/101 Air Pollution Effects on Plants (135) Jan 75
NTIS/PS-75/102 Behavior and Physiological Effects of Noise. Vol 1. 1964-1972 (200) Jan 75
NTIS/PS-75/103 Behavior and Physiological Effects of Noise. Vol 2. 1973-1974 (72) Jan 75
NTIS/PS-75/106 Auditory Perception in Cetacea (57) Jan 75
NTIS/PS-75/107 Ecology of Insecticide Water Pollution. Vol 1. 1974 (62) Jan 75

NTIS/PS-75/108 Ecology of Insecticide Water Pollution. Vol 2. 1964-1973 (203) Jan 75
NTIS/PS-75/118 The Biological Effects of Oil Spills (107) Jan 75 Excludes biodeterioration
NTIS/PS-75/124 Herpes Virus (103) Jan 75

Order Number

NTIS/PS-75/125 Cigarette Smoking (39) Jan 75
NTIS/PS-75/129 Bacterial Pollution of Water (147) Jan 75

NTIS/PS-75/131 Rehabilitation of the Physically Handicapped (119) 1968-Jan 75 Excludes reports sponsered solely by the Atomic Energy Commission
NTIS/PS-75/132 Rehabilitation of the Mentally Retarded (79) Jan 75
NTIS/PS-75/138 Color Vision (143) Jan 75
NTIS/PS-75/147 Drug Abuse (113) Jan 75
NTIS/PS-75/152 Biodeterioration of Oil Spills (81) Jan 74

NTIS/PS-75/161 Effects of Fatigue on Human Behavior and Performance (104) Jan 75
NTIS/PS-75/169 Whales (93) Jan 75
NTIS/PS-75/170 Cold Weather Stress on Humans (72) Jan 75
NTIS/PS-75/171 Emergency Medical Services and Care (87) Jan 75
NTIS/PS-75/172 Night Vision and Dark Adaptation (78) Jan 75

NTIS/PS-75/173 Radiology (102) 1967-Jan 75
NTIS/PS-75/175 Ultrasonics in Medicine (39) Jan 75
NTIS/PS-75/176 Prostaglandins (37) 1967-Jan 75
NTIS/PS-75/210 Biological Effects of Mercury Pollution (112) Dec 74
NTIS/PS-75/213 Nuclear Medicine (218) Jan 75

NTIS/PS-75/219 Thermal Pollution. Part 2. Biological Effects (171) Jan 75
NTIS/PS-75/222 Tumor Immunology (51) 1964-Sept 73
NTIS/PS-75/235 Psychoses (85) Jan 75
NTIS/PS-75/236 Hyperbaric Oxygenation (125) Jan 75
NTIS/PS-75/237 Altitude Hypoxia (166) Jan 75

NTIS/PS-75/245 Forensic Medicine (39) Jan 75
NTIS/PS-75/259 Nystagmus (196) Jan 75
NTIS/PS-75/260 Hemophilia (22) Jan 75
NTIS/PS-75/262 Radioimmunoassay Studies (55) Jan 75
NTIS/PS-75/263 Tumor Viruses (65) Jan 75

NTIS/PS-75/264 Cardiovascular Diseases. Vol. 2. 1973-1974 (106) 1973-Oct 74
NTIS/PS-75/265 Cardiovascular Diseases. Vol. 1. 1964-1972 (151) 1964-1972
NTIS/PS-75/268 Biological Effects of Lead Pollution (109) Jan 75
NTIS/PS-75/272 Hypertension (80) Jan 75
NTIS/PS-75/273 Chronic Obstructive Lung Disease (24) Jan 75

NTIS/PS-75/278 Underwater Medicine and Physiology (191) Jan 75

MEDICINE AND BIOLOGY (Cont.)

Order Number	
NTIS/PS-75/280	Burn Therapy (126) Jan 75
NTIS/PS-75/307	Malaria. Vol 1. 1964-1970 (174) Feb 75
NTIS/PS-75/308	Malaria. Vol 2. 1971-1974 (64) Feb 75
NTIS/PS-75/315	Oral Diseases and Preventive Dentistry (119) Feb 75
NTIS/PS-75/320	Aircraft Sonic Boom. Part 3. Biological Effects (52) Feb 75
NTIS/PS-75/329	Ecology of the Marine Environment (205) Feb 75
NTIS/PS-75/339	Leukemia (134) Feb 75
NTIS/PS-75/340	Dental Materials and Equipment (143) Feb 75
NTIS/PS-75/344	Schistosoma and Schistosomiasis (130) Feb 75
NTIS/PS-75/349	Septicemia (158) Feb 75

MILITARY SCIENCES

Order Number	
NTIS/PS-74/121	Inventory Control (195) 1970-Dec 74
NTIS/PS-75/001	Guerrilla Warfare (125) Jan 74
NTIS/PS-75/002	Civil Insurgency (84) Jan 75
NTIS/PS-75/003	Riots and Riot Control (110) Jan 75
NTIS/PS-75/004	Insurgency and Counterinsurgency in Military Affairs (128) Jan 75
NTIS/PS-75/055	Night Vision Devices (95) Jan 75

NATURAL RESOURCES

Order Number	
COM-73-11501	Planning and Impact of Water Resource Programs (110) Jul 73
COM-73-11585	Biochemical Oxygen Demand (132) Oct 73
COM-73-11695	Effects of Land Use and Urbanization on Water Resources (79) 1972-Sep 73
COM-73-11707	Aeration Systems and Processes (101) Sep 73 Covers sewage lagoons and mechanical aeration of reservoirs
COM-73-11727	Cloud Seeding (134) Oct 73 Includes effects on water resources

Order Number

COM-73-11801 Underwater Construction and Management (53) Oct 73
COM-73-11802 Structural Geologic Studies (88) Jul 73
COM-74-10312 Salt Marshes (34) Dec 73
COM-74-10406 Forest management (85) 1967-Feb 74
COM-74-10938 Water Quality Modeling (158) May 74

COM-74-10969 Oil Shale (89) Jun 74
COM-74-11202 Sport Fishing (124) Jul 74
COM-74-11223 Mine Safety (158) 1972-Jul 74
NTIS/PS-74/090 Eutrophication (254) Nov 74
NTIS/PS-74/099 Water Rights and Water Law (147) Nov 74

NTIS/PS-74/103 Offshore Drilling (96) 1966-Nov 74 Includes environmental aspects
NTIS/PS-74/129 Automatic Acquisition of Water Quality Data (116) 1970-Dec 74
NTIS/PS-74/134 Ocean Law (123) Dec 74
NTIS/PS-75/042 Snow Studies (192) Jan 75
NTIS/PS-75/046 Acid Mine Drainage (137) Jan 75

NTIS/PS-75/050 Environmental and Ecological Effects of Dredging (85) Jan 75
NTIS/PS-75/054 Strip Mining (101) Jan 75
NTIS/PS-75/059 Seismology (62) 1974-Oct 74 Excludes detection
NTIS/PS-75/068 Agricultural Resources Surveys (53) 1973-Jan 75
NTIS/PS-75/071 Ground Water Pollution. Part 1. General Studies (133) Jan 74 Excludes studies dealing with irrigation and fertilization

NTIS/PS-75/072 Ground Water Pollution. Part 2. Pollution From Irrigation and Fertilization (132) Jan 75
NTIS/PS-75/078 Weather Modification Effects and Management (117) Jan 75 Excludes theory and physics of cloud seeding and nucleation
NTIS/PS-75/092 Endangered Species (29) Dec 74
NTIS/PS-75/104 Remote Sensing for Natural Resource, Environmental, and Regional Planning (91) 1973-Jan 75
NTIS/PS-75/105 Instrumentation and Data Processing Used in the Earth Resources Technology Satellite (80) 1973-Dec 74

NTIS/PS-75/112 Coal Mine Waste (51) Dec 74
NTIS/PS-75/191 Tectonics (157) Jan 75
NTIS/PS-75/196 Mine Ventilation (66) Jan 75
NTIS/PS-75/197 Permafrost. Part 1. General Studies (105) Jan 75
NTIS/PS-75/198 Permafrost. Part 2. Structural Engineering (174) Jan 75

NTIS/PS-75/220 Thermal Pollution. Part 3. Hydrology and Hydrodynamics (124) Jan 75

NATURAL RESOURCES (Cont.)

Order Number

NTIS/PS-75/254 Oil Recovery (86) Jan 75 Excludes offshore drilling
NTIS/PS-75/326 Seismic Detection: Part 1. General Studies (82) Jan 75

NAVIGATION, GUIDANCE AND CONTROL

Order Number

NTIS/PS-75/151 Omega Navigation System (129) Jan 75

NON-DESTRUCTIVE TESTING

Order Number

COM-73-11958 Applications of Holography (123) 1970-Nov 73
COM-74-11372 Motor Vehicle Tires: Skid and Wear Resistance; Nondestructive Tests; Safety (130) Aug 74
NTIS/PS-75/115 Holographic Flow Visualization (53) Jan 75
NTIS/PS-75/117 Schlieren and Shadowgraph Photography (149) Jan 75
NTIS/PS-75/270 Nondestructive Ultrasonic Testing and Inspection. Vol. 1. 1964-1971 (188) Jan 75

NTIS/PS-75/271 Nondestructive Ultrasonic Testing and Inspection. Vol. 2. 1972-1974 (165) Jan 75

NUCLEAR SCIENCE AND TECHNOLOGY

Order Number

NTIS/PS-75/181 Carbon and Graphite Materials. Part 3. Graphite Research (148) Jan 75
NTIS/PS-75/213 Nuclear Medicine (218) Jan 75
NTIS/PS-75/327 Seismic Detection. Part 2. Nuclear Events--1970-1972--Vol. 1. (135) Jan 75
NTIS/PS-75/328 Seismic Detection. Part 2. Nuclear Events--1973-1974--Vol. 2. (124) Jan 75

OCEAN TECHNOLOGY AND ENGINEERING

Order Number	
COM-73-11676	Remote Sensing of the Ocean Surface (101) 1970-Sep 73
COM-73-11801	Underwater Construction and Management (53) Oct 73
COM-74-10107	Ocean Wave Sensors (82) Jan 74
COM-74-10889	Marine Fouling (125) 1969-May 74
COM-74-10951	Oil Spill Removal (114) May 74
COM-74-11057	Sewage Effects in Marine and Estuarine Environments (112) Jun 74
COM-74-11265	Ocean Waste Disposal (131) Aug 74
NTIS/PS-74/088	Supertankers and Superports (60) Nov 74 Includes environmental considerations
NTIS/PS-74/100	Water Pollution in Estuaries and Coastal Zones (153) Nov 74 Excludes specific biological and oceanographic studies
NTIS/PS-74/123	Offshore Sructures (66) Dec 74 Excludes offshore drilling platforms
NTIS/PS-74/134	Ocean Law (123) Dec 74
NTIS/PS-75/014	Marine Anchors (97) Dec 74
NTIS/PS-75/037	Underwater Voice Communication Systems (78) Dec 74
NTIS/PS-75/038	Underwater Clothing, Tools, and Equipment (101) Dec 74 Excludes breathing apparatus
NTIS/PS-75/039	Underwater Breathing Apparatus (130) Dec 74
NTIS/PS-75/059	Seismology (62) 1974-Oct 74 Excludes detection
NTIS/PS-75/077	Icebreakers and Icebreaking (88) Dec 74
NTIS/PS-75/118	The Biological Effects of Oil Spills (107) Jan 75 Excludes biodeterioration
NTIS/PS-75/141	Recreational Boating (71) Jan 75
NTIS/PS-75/143	Sea Water Corrosion (165) Dec 74
NTIS/PS-75/152	Biodeterioration of Oil Spills (81) Jan 74
NTIS/PS-75/169	Whales (93) Jan 75
NTIS/PS-75/191	Tectonics (157) Jan 75
NTIS/PS-75/255	Foundations in Marine Environments (64) Dec 74
NTIS/PS-75/278	Underwater Medicine and Physiology (191) Jan 75
NTIS/PS-75/284	Shipborne Containers and Containerization (100) Jan 75
NTIS/PS-75/293	Cavitation. Part 2. Hydrofoils (90) Feb 75
NTIS/PS-75/296	Cavitation. Part 5. Propeller Cavitation (74) Feb 75
NTIS/PS-75/304	Aquaculture. Part 1. Fish (212) Feb 75 Excludes studies on salmon
NTIS/PS-75/305	Aquaculture. Part 2. Shellfish (129) Feb 75
NTIS/PS-75/329	Ecology of the Marine Environment (205) Feb 75
NTIS/PS-75/332	Surface Effect Vehicles/Ships in Marine Environments (108) Jan 75

OCEAN TECHNOLOGY AND ENGINEERING (Cont.)

Order Number	
NTIS/PS-75/333	Surface Effect Vehicles and Surface Effect: General Studies. Vol. 1. 1964-1971 (134) Jan 75 Does not include marine environments
NTIS/PS-75/334	Surface Effect Vehicles and Surface Effect: General Studies. Vol. 2. 1972-1974 (67) Jan 75 Does not include marine environments

ORDNANCE

Order Number	
NTIS/PS-75/043	The Use of Dogs to Detect Explosives and Narcotics (24) Jan 75
NTIS/PS-75/136	Lightweight Armor (106) Jan 75

PHOTOGRAPHY AND RECORDING DEVICES

Order Number	
COM-74-10870	Holography (90) Apr 74 Excludes acoustic holography and applications
COM-74-10871	Acoustic holography (64) Apr 74
NTIS/PS-75/115	Holographic Flow Visualization (53) Jan 75
NTIS/PS-75/116	Flow Visualization (106) Jan 75 Excludes shadowgraph, schlieren, and holographic techniques
NTIS/PS-75/117	Schlieren and Shadowgraph Photography (149) Jan 75

PHYSICS

Order Number	
COM-73-10242	Stress Analysis of Cracks (129) Jan 74
COM-73-11705	Amorphous Semiconductors (143) 1971-Sep 73
COM-73-11713	Radiation Damage of Laser Materials (88) Sep 73
COM-73-11958	Applications of Holography (123) 1970-Nov 73
COM-74-10122	Light Communication Systems (95) 1971-Oct 73 Includes equipment
COM-74-10833	Structural Mechanics Software (126) 1971-Apr 74
COM-74-10868	Nonlinear Acoustics (56) 1966-Apr 74

Order Number	
COM-74-10869	Fiber Optics (102) 1969-Apr 74
COM-74-10870	Holography (90) Apr 74 Excludes acoustic holography and applications
COM-74-10871	Acoustic holography (64) Apr 74
COM-74-11056	Carbon Dioxide Lasers (170) Jun 74
COM-74-11499	Numerical Methods in Fluid Flow Problems (139) Sep 74
NTIS/PS-74/109	Drag Reducing Fluids (134) 1969-Nov 74
NTIS/PS-74/116	Liquid Crystals (182) Nov 74
NTIS/PS-74/120	Dye Lasers (140) Dec 74
NTIS/PS-74/131	Nuclear Fusion (146) 1971-Dec 74 Excludes reports solely sponsered by the Atomic Energy Commission
NTIS/PS-75/015	Metal Vapor Lasers (35) Dec 74
NTIS/PS-75/016	Carbon Monoxide Lasers (83) Dec 74
NTIS/PS-75/018	Gas Dynamic Lasers (85) Dec 74
NTIS/PS-75/035	Electroluminescent Display Devices (105) Jan 75
NTIS/PS-75/044	Gallium Arsenide Lasers (77) Jan 74
NTIS/PS-75/075	Infrared Upconversion (48) Dec 74
NTIS/PS-75/081	Ultraviolet and X Ray Lasers (80) Jan 75
NTIS/PS-75/086	Magnetic Bubble Domains (42) Jan 75
NTIS/PS-75/089	Cadmium Sulfide Solar Cells (161) Jan 75
NTIS/PS-75/115	Holographic Flow Visualization (53) Jan 75
NTIS/PS-75/116	Flow Visualization (106) Jan 75 Excludes shadowgraph, schlieren, and holographic techniques
NTIS/PS-75/117	Schlieren and Shadowgraph Photography (149) Jan 75
NTIS/PS-75/153	Cavity Flow (117) Jan 75
NTIS/PS-75/164	Aircraft Wake Vortices (137) Dec 1974
NTIS/PS-75/177	Schottky Barrier Devices (114) Jan 75
NTIS/PS-75/178	Frequency Allocation and Management (100) Jan 75
NTIS/PS-75/188	Band Pass Filters (104) Jan 75
NTIS/PS-75/204	Fluid Control Devices. Vol 1. 1964-1971 (188) Dec 74
NTIS/PS-75/205	Fluid Control Devices. Vol 2. 1972-1974 (104) Dec 74
NTIS/PS-75/225	Quasars, Pulsars, Black Holes (170) Feb 75
NTIS/PS-75/229	Solar Eclipses (140) Feb 75
NTIS/PS-75/230	Relativity Theory (130) 1970-Dec 74
NTIS/PS-75/238	Quantum Electrodynamics (153) Feb 75
NTIS/PS-75/242	Cosmology (102) Feb 75
NTIS/PS-75/244	Use of Ultrasonics in Manufacturing Procedures (89) Dec 74
NTIS/PS-75/248	Acoustic Surface Waves. Vol. 1. 1964-1972 (75) Jan 75

PHYSICS (Cont.)

Order Number

NTIS/PS-75/249 Acoustic Surface Waves. Vol. 2. 1973-1974 (137) Jan 75
NTIS/PS-75/292 Cavitation. Part 1. Cavitation Flow (142) Feb 75
NTIS/PS-75/293 Cavitation. Part 2. Hydrofoils (90) Feb 75

NTIS/PS-75/294 Cavitation. Part 3. Corrosion and Erosion (83) Feb 75
Excludes turbine cavitation
NTIS/PS-75/295 Cavitation. Part 4. Cavitation Flow and Erosion in Turbines (60) Feb 75
NTIS/PS-75/296 Cavitation. Part 5. Propeller Cavitation (74) Feb 75
NTIS/PS-75/316 Heat Pipes. Vol 1. 1964-1972 (175) Feb 75
NTIS/PS-75/317 Heat Pipes. Vol 2. 1973-1974 (122) Feb 75

PROPULSION AND FUELS

Order Number

NTIS/PS-75/126 Gas Turbines, General: Corrosion and Erosion (141) Dec 74
Excludes turbine blades
NTIS/PS-75/127 Turbine Blades: Corrosion and Erosion (78) Dec 74
NTIS/PS-75/139 Diesel Engine Exhaust (86) Jan 75
NTIS/PS-75/256 Fluidized Bed Combustion (66) Dec 74
NTIS/PS-75/295 Cavitation. Part 4. Cavitation Flow and Erosion in Turbines (60) Feb 75

NTIS/PS-75/312 Automobile Air Pollution. Part 4. New Automotive Engines (60) 1970-Dec 74
NTIS/PS-75/313 Automobile Air Pollution. Part 5. Automotive Fuels (48) 1970-Dec 74

TRANSPORTATION

Order Number

COM-73-11716 Urban Automated Traffic Control (77) Sep 73
COM-74-10887 Transportation for the Elderly and Physically Handicapped (25) Apr 74
COM-74-10919 Air Traffic Control Simulation Models (125) May 74
COM-74-10971 Highway Traffic Noise (73) Jun 74
COM-74-11372 Motor Vehicle Tires: Skid and Wear Resistance; Nondestructive Tests; Safety (130) Aug 74

COM-74-11573 Electric Automobiles (60) Oct 74

TRANSPORTATION (Cont.)

Order Number	
NTIS/PS-74/098	Airport Noise (113) Nov 74
NTIS/PS-74/110	Alcoholism (135) Nov 74
NTIS/PS-75-073	Signs and Display Systems: Graphic Design and Human Engineering ( )
NTIS/PS-75/006	Pedestrian Movement and Safety (70) 1968-Oct 74
NTIS/PS-75/008	Clear Air Turbulence (220) Dec 74
NTIS/PS-75/033	Stress Factors on Pilot Performance (65) Nov 74
NTIS/PS-75/036	Collision Avoidance Systems (156) Dec 74
NTIS/PS-75/060	Maneuvering Aircraft: Noise Pollution and Control (102) Jan 75
NTIS/PS-75/073	Signs and Display Systems: (92) Jan 75
NTIS/PS-75/074	Bicycles (41) Jan 75
NTIS/PS-75/099	Fog Dispersal (167) Jan 74
NTIS/PS-75/114	Tracked Air Cushion Vehicles and Magnetic Levitation (70) Dec 74
NTIS/PS-75/122	Highway Markings (64) Dec 74
NTIS/PS-75/130	Air Bag Restraints (68) Jan 75
NTIS/PS-75/144	Driver Education (109) Jan 75
NTIS/PS-75/148	Tourism and Travel in the United States (85) Jan 75
NTIS/PS-75/151	Omega Navigation System (129) Jan 75
NTIS/PS-75/164	Aircraft Wake Vortices (137) Dec 1974
NTIS/PS-75/174	Discrete Address Beacon System (46) Jan 75
NTIS/PS-75/180	Highway Beautification (46) Jan 75
NTIS/PS-75/200	Financing Urban Transportation. Part 1. General Studies (65) 1970-Jan 75
NTIS/PS-75/201	Financing Urban Transportation. Part 2. Local Studies (95) 1970-Jan 75
NTIS/PS-75/231	Ice and Fog: Detection and Warning Systems (58) Dec 74
NTIS/PS-75/279	Urban Parking (82) Feb 75
NTIS/PS-75/286	Hazardous Materials Transportation (126) Dec 74 Excludes radioactive wastes
NTIS/PS-75/287	Dual Mode Transportation (77) Feb 75
NTIS/PS-75/309	Automobile Air Pollution. Part 1. Abatement Through Management and Planning (89) 1970-Jan 75
NTIS/PS-75/310	Automobile Air Pollution. Part 2. Exhaust Analysis (33) 1970-Dec 74
NTIS/PS-75/311	Automobile Air Pollution. Part 3. Control Equipment (100) 1970-Dec 74
NTIS/PS-75/312	Automobile Air Pollution. Part 4. New Automotive Engines (60) 1970-Dec 74
NTIS/PS-75/313	Automobile Air Pollution. Part 5. Automotive Fuels (48) 1970-Dec 74

TRANSPORTATION (Cont.)

Order Number	
NTIS/PS-75/314	Automobile Air Pollution. Part 6. Atmospheric Motion (42) 1970-Dec 74
NTIS/PS-75/318	Aircraft Sonic Boom. Part 1. Studies on Aircraft Flight and Design (99) Feb 75
NTIS/PS-75/319	Aircraft Sonic Boom. Part 2. Effects on Buildings (60) Feb 75
NTIS/PS-75/320	Aircraft Sonic Boom. Part 3. Biological Effects (52) Feb 75
NTIS/PS-75/321	Railroad Management and Planning (139) Feb 75
NTIS/PS-75/322	Railroad Freight Transportation (98) Feb 75
NTIS/PS-75/342	Fuel Consumption. Part 2. Transportation (93) Feb 75

URBAN TECHNOLOGY

Order Number	
COM-73-11695	Effects of Land Use and Urbanization on Water Resources (79) 1972-Sep 73
COM-73-11716	Urban Automated Traffic Control (77) Sep 73
COM-74-10100	Juvenile Delinquency Prevention Programs (100) Dec 73
COM-74-10123	Health Care Delivery (40) 1970-Jan 74
COM-74-10887	Transportation for the Elderly and Physically Handicapped (25) Apr 74
COM-74-10917	Police (132) May 74
COM-74-10971	Highway Traffic Noise (73) Jun 74
COM-74-10982	Industrialized Housing (159) Jun 74
COM-74-11201	Flood Control (191) 1972-Jul 74
COM-74-11319	Urban Information Systems (196) 1970-Aug 74 Includes USAC reports
COM-74-11360	Air Quality Monitoring (121) 1970-Jul 74
COM-74-11393	The Elderly (139) Sep 74
COM-74-11534	Building Fires (143) Oct 68
NTIS/PS-74/104	Urban Air Pollution (153) 1970-Nov 74
NTIS/PS-74/106	Urban Noise Pollution (66) 1970-Nov 74
NTIS/PS-74/107	Urban Sewage Treatment Planning (134) 1970-Nov 74
NTIS/PS-74/108	Urban Storm Sewers and Water Runoff (229) Nov 74
NTIS/PS-74/125	Quality of Life in the Urban Environment (131) 1970-Dec 74
NTIS/PS-74/132	Housing (121) 1970-Dec 74
NTIS/PS-75/003	Riots and Riot Control (110) Jan 75

URBAN TECHNOLOGY (Cont.)

Order Number	
NTIS/PS-75/005	Rehabilitation of Criminal and Public Offenders (100) 1967-Oct 74
NTIS/PS-75/006	Pedestrian Movement and Safety (70) 1968-Oct 74
NTIS/PS-75/007	Disasters (131) Dec 74
NTIS/PS-75/043	The Use of Dogs to Detect Explosives and Narcotics (24) Jan 75
NTIS/PS-75/047	Crime Prevention and Enforcement Through Community Relations (72) Jan 75
NTIS/PS-75/056	Behavior and Psychology as Related to Law Enforcement (103) Jan 75
NTIS/PS-75/061	De-icing Materials and Techniques for Roads and Runways (140) Jan 75
NTIS/PS-75/083	The Use of the Mass Media by Local and Regional Governments (58) Jan 75
NTIS/PS-75/104	Remote Sensing for Natural Resource, Environmental, and Regional Planning (91) 1973-Jan 75
NTIS/PS-75/114	Tracked Air Cushion Vehicles and Magnetic Levitation (70) Dec 74
NTIS/PS-75/119	Minority Business (71) Jan 75 Excludes regional and socioeconomic studies
NTIS/PS-75/120	Economic Development of Ethnic Minorities (86) Jan 75
NTIS/PS-75/141	Recreational Boating (71) Jan 75
NTIS/PS-75/148	Tourism and Travel in the United States (85) Jan 75
NTIS/PS-75/168	Ghettos (69) Jan 75
NTIS/PS-75/171	Emergency Medical Services and Care (87) Jan 75
NTIS/PS-75/180	Highway Beautification (46) Jan 75
NTIS/PS-75/184	Regional and Urban Solid Waste Disposal. Part 1. Management Planning (81) Jan 75
NTIS/PS-75/185	Regional and Urban Solid Waste Disposal. Part 2. Local Case Studies (110) Jan 75
NTIS/PS-75/186	Regional and Urban Solid Waste Disposal. Part 3. Handling and Disposal Technology (84) Jan 75
NTIS/PS-75/199	Urban Financing and Taxation (95) Jan 75 Excludes financing of transportation and pollution control
NTIS/PS-75/200	Financing Urban Transportation. Part 1. General Studies (65) 1970-Jan 75
NTIS/PS-75/201	Financing Urban Transportation. Part 2. Local Studies (95) 1970-Jan 75
NTIS/PS-75/202	Financing and Taxation For Urban Control of Pollution (111) Jan 75
NTIS/PS-75/203	Housing Taxation and Financing by the Federal, State, and Local Governments (87) Jan 75
NTIS/PS-75/216	Citizen Participation in Local Government (99) Jan 75

Order Number

NTIS/PS-75/279 Urban Parking (82) Feb 75
NTIS/PS-75/287 Dual Mode Transportation (77) Feb 75
NTIS/PS-75/301 Central City Redevelopment (54) Feb 75
NTIS/PS-75/309 Automobile Air Pollution. Part 1. Abatement Through Management and Planning (89) 1970-Jan 75

NTIS/PS-75/323 Population Mobility (127) Feb 75

MAIL ORDER TO:

NTIS

National Technical Information Service
U. S. DEPARTMENT OF COMMERCE
5285 Port Royal Road
Springfield, Va. 22161

TELEX 89-9405
Telephone (703) 321-8543

Date _____

PURCHASER:

SHIP TO: (Enter if different from address at left)

Name _____

Organization _____

Address _____

Attention: _____ City, State, ZIP _____

- ☐ Charge my NTIS deposit account no. _____
- ☐ Send me an application for an NTIS deposit account.
- ☐ Purchase order no. _____
- ☐ Check enclosed for $ _____
- ☐ Bill me. See reverse for costs (not applicable to foreign customers).
- ☐ Charge to my American Express Card account number:

☐☐☐ ☐☐☐ ☐☐☐ ☐ ☐☐☐

Signature _____

Wherever a foreign sales price is NOT specified in the listings, all foreign buyers must add the following charges to each order:

$2.50 for each document
$1.50 for each microfiche

FOR DDC USERS ONLY

DDC User Code _____

Contract Number _____
(Last 6 characters only)

Allow 3-5 weeks for delivery on your order. If ordering without a document number, by title only, allow an additional 2 weeks.

DOCUMENT NUMBER [If ordering by title or if item ordered is a magnetic tape, please see reverse side.]	USER ROUTING CODE (see reverse)	Quantity			Unit Price	Total Price
		Paper Copy	Micro-fiche	Other (specify)		
					Enter Grand Total	$

USCOMM-DC 6367-P75

USER ROUTING CODE: NTIS can label each document for routing within your organization. If you want this service put your routing code in the box marked USER ROUTING CODE. (Limit eight characters)

SHIP & BILL SERVICE: NTIS appreciates prepayment for documents through the use of an NTIS Deposit Account, check, or money order. Should this not be convenient, NTIS will mail your order and bill you about 15 days after shipment. The handling charge for ordering documents is $5.00 per order (not line item); $5.00 per NTISearch ordered; $2.50 per subscription ordered. NTIS does not bill customers for magnetic tapes or shipments destined for outside the United States.

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TITLE #1

Sponsor's Series #	Contract or Grant Number of Report	Date Published
Originator (Give specific laboratory, or division and location.)		Personal Author
Turn to other side. Write "1" in the Document Number block and complete the rest of the line.		

TITLE #2

Sponsor's Series #	Contract or Grant Number of Report	Date Published
Originator (Give specific laboratory, or division and location.)		Personal Author
Turn to other side. Write "2" in the Document Number block and complete the rest of the line.		

TITLE #3

Sponsor's Series #	Contract or Grant Number of Report	Date Published
Originator (Give specific laboratory, or division and location.)		Personal Author
Turn to other side. Write "3" in the Document Number block and complete the rest of the line.		

TITLE #4

Sponsor's Series #	Contract or Grant Number of Report	Date Published
Originator (Give specific laboratory, or division and location.)		Personal Author
Turn to other side. Write "4" in the Document Number block and complete the rest of the line.		

TITLE #5

Sponsor's Series #	Contract or Grant Number of Report	Date Published
Originator (Give specific laboratory, or division and location.)		Personal Author
Turn to other side. Write "5" in the Document Number block and complete the rest of the line.		

MAIL ORDER TO:

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U. S. DEPARTMENT OF COMMERCE
5285 Port Royal Road
Springfield, Va. 22161

TELEX 89-9405
Telephone (703) 321-8543

Date _____

PURCHASER:

SHIP TO: (Enter if different from address at left)

Name _____

Organization _____

Address _____

Attention: _____ City, State, ZIP _____

- ☐ Charge my NTIS deposit account no. _____
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- ☐ Check enclosed for $ _____
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		Paper Copy	Micro-fiche	Other (specify)		
					Enter Grand Total	$

USCOMM-DC 6367-P75

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TITLE #2

Sponsor's Series #	Contract or Grant Number of Report	Date Published
Originator (Give specific laboratory, or division and location.)		Personal Author
Turn to other side. Write "2" in the Document Number block and complete the rest of the line.		

TITLE #3

Sponsor's Series #	Contract or Grant Number of Report	Date Published
Originator (Give specific laboratory, or division and location.)		Personal Author
Turn to other side. Write "3" in the Document Number block and complete the rest of the line.		

TITLE #4

Sponsor's Series #	Contract or Grant Number of Report	Date Published
Originator (Give specific laboratory, or division and location.)		Personal Author
Turn to other side. Write "4" in the Document Number block and complete the rest of the line.		

TITLE #5

Sponsor's Series #	Contract or Grant Number of Report	Date Published
Originator (Give specific laboratory, or division and location.)		Personal Author
Turn to other side. Write "5" in the Document Number block and complete the rest of the line.		

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TELEX 89-9405
Telephone (703) 321-8543

Date _____

PURCHASER:

SHIP TO: (Enter if different from address at left)

Name _____

Organization _____

Address _____

Attention: _____

City, State, ZIP _____

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Originator (Give specific laboratory, or division and location.)		Personal Author
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TITLE #5

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Originator (Give specific laboratory, or division and location.)		Personal Author
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PURCHASER:

SHIP TO: (Enter if different from address at left)

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Address _____

Attention: _____ City, State, ZIP _____

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		Paper Copy	Micro-fiche	Other (specify)		
					Enter Grand Total	$

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Originator (Give specific laboratory, or division and location.)		Personal Author
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Sponsor's Series #	Contract or Grant Number of Report	Date Published
Originator (Give specific laboratory, or division and location.)		Personal Author
Turn to other side. Write "5" in the Document Number block and complete the rest of the line.		

COUNCIL OF THE DISTRICT OF COLUMBIA

WASHINGTON, D. C. 20004

JULIUS W. HOBSON, SR.
Councilmember at Large

April 8, 1975

Mr. Dean Smith
2345 49th Street, N.W.
Washington, D.C. 20007

Dear Dean:

Thank you for your letter of March 24th. I am very sorry I am unable to resubmit my application for membership in The Federal City Club at this time. I am honored by your offer to be my sponsor.

However, I will be calling on you for a look at some of your technical reports from the National Technical Information Service.

How is your family -- I hope they are all okay.

Sincerely,

Julius W. Hobson

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DISTRICT OF COLUMBIA CITY COUNCIL
COUNCILMEMBER JULIUS W. HOBSON
WASHINGTON, D.C. 20004

Mr. Dean Smith
2345 49th Street, N.W.
Washington, D.C. 20007

National Technical Information Service

NTIS

Information Services

About NTIS

The National Technical Information Service of the U.S. Department of Commerce is a central source for the public sale of Government-sponsored research, development and engineering reports and other analyses prepared by Federal agencies, their contractors or grantees. And, it is a central source for Federally generated machine processable data files.

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continued inside back cover

PERSONAL RECORD

NAME _____

ADDRESS _____

_____

TELEPHONE NO. _____

SOCIAL SECURITY NO. _____

BUSINESS ADDRESS _____

_____

TELEPHONE NO. _____

DRIVER'S LICENSE NO. _____

CAR LICENSE NO _____

CAR INSURANCE POLICY NO. _____

_____

IN CASE OF SERIOUS ILLNESS NOTIFY _____

_____

_____

_____

CHECKING ACCOUNT NUMBER _____

BLOOD TYPE _____

_____

COPR. 1973 SHAW-BARTON, COSHOCTON, OHIO — PRINTED IN U. S. A.

1975

JANUARY 1975

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

FEBRUARY 1975

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	

MARCH 1975

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23/30	24/31	25	26	27	28	29

APRIL 1975

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

MAY 1975

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

JUNE 1975

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

JULY 1975

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

AUGUST 1975

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24/31	25	26	27	28	29	30

SEPTEMBER 1975

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

OCTOBER 1975

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

NOVEMBER 1975

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23/30	24	25	26	27	28	29

DECEMBER 1975

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

DECEMBER 1974

SUN	MON	TUE	WED	THU	FRI	SAT
1	2	3	4	5	6	7
8	9 HANUKAH	10	11	12	13	14
15	16	17	18	19	20	21
22 WINTER BEGINS	23	24	25 CHRISTMAS DAY	26	27	28
29	30	31				

sun	mon	tue	wed
			1 NEW YEAR'S DAY
5	6	7	8
12	13	14	15
19	20	21	22
26	27	28	29

thu	fri	sat
	3	4
	10	11
6	17	18
3	24	25
30	31	

JANUARY 1975

sun	mon	tue	wed
2	3	4	5
9	10	11	12 ASH WEDNESDAY ABRAHAM LINCOLN
16	17 GEORGE WASHINGTON	18	19
23	24	25	26

thu	fri	sat
		1
	7	8
3	14 ST. VALENTINE'S DAY	15
20	21	22 TRADITIONAL GEORGE WASHINGTON
27	28	

FEBRUARY 1975

sun	mon	tue	wed
2	3	4	5
9	10	11	12
16	17 ST. PATRICK'S DAY	18	19
23 PALM SUNDAY	24	25	26
30 EASTER	31		

thu	fri	sat
		1
	7	8
3	14	15
20	21 SPRING BEGINS	22
27 PASSOVER	28 GOOD FRIDAY	29

MARCH 1975

sun	mon	tue	wed
		1	2
6	7	8	9
13	14	15	16
20	21	22	23
27	28	29	30

thu	fri	sat
	4	5
0	11	12
17	18	19
24	25	26

APRIL 1975

sun	mon	tue	wed
4	5	6	7
11 MOTHER'S DAY	12	13	14
18	19 VICTORIA DAY, CANADA	20	21
25	26 MEMORIAL DAY	27	28

thu	fri	sat
	2	3
8	9	10
15	16	17
22	23	24
29	30 TRADITIONAL MEMORIAL DAY	31

MAY 1975

sun	mon	tue	wed
1	2	3	4
8	9	10	11
15 FATHER'S DAY	16	17	18
22	23	24	25
29	30		

thu	fri	sat
	6	7
2	13	14 FLAG DAY
9	20	21 SUMMER BEGINS
26	27	28

JUNE 1975

sun	mon	tue	wed
		1 DOMINION DAY, CANADA	2
6	7	8	9
13	14	15	16
20	21	22	23
27	28	29	30

thu	fri	sat
	4 INDEPENDENCE DAY	5
0	11	12
7	18	19
24	25	26
31		

JULY 1975

sun	mon	tue	wed
3	4	5	6
10	11	12	13
17	18	19	20
24	25	26	27
31			

thu	fri	sat
	1	2
	8	9
4	15	16
21	22	23
28	29	30

AUGUST 1975

sun	mon	tue	wed
	1 LABOR DAY	2	3
7	8	9	10
14	15 YOM KIPPUR	16	17
21	22	23 AUTUMN BEGINS	24
28	29	30	

thu	fri	sat
	5	6 JEWISH NEW YEAR
1	12	13
8	19	20
25	26	27

SEPTEMBER 1975

sun	mon	tue	wed
			1
5	6	7	8
12 TRADI-TIONAL COLUMBUS DAY	13 COLUMBUS DAY THANKSGIVING DAY, CANADA	14	15
19	20	21	22
26	27 VETERANS' DAY	28	29

thu	fri	sat
	3	4
	10	11
6	17	18
23	24	25
30	31	

HALLOWE'EN

OCTOBER 1975

sun	mon	tue	wed
2	3	4	5
9	10	11 TRADITIONAL VETERANS' DAY	12
16	17	18	19
23 30	24	25	26

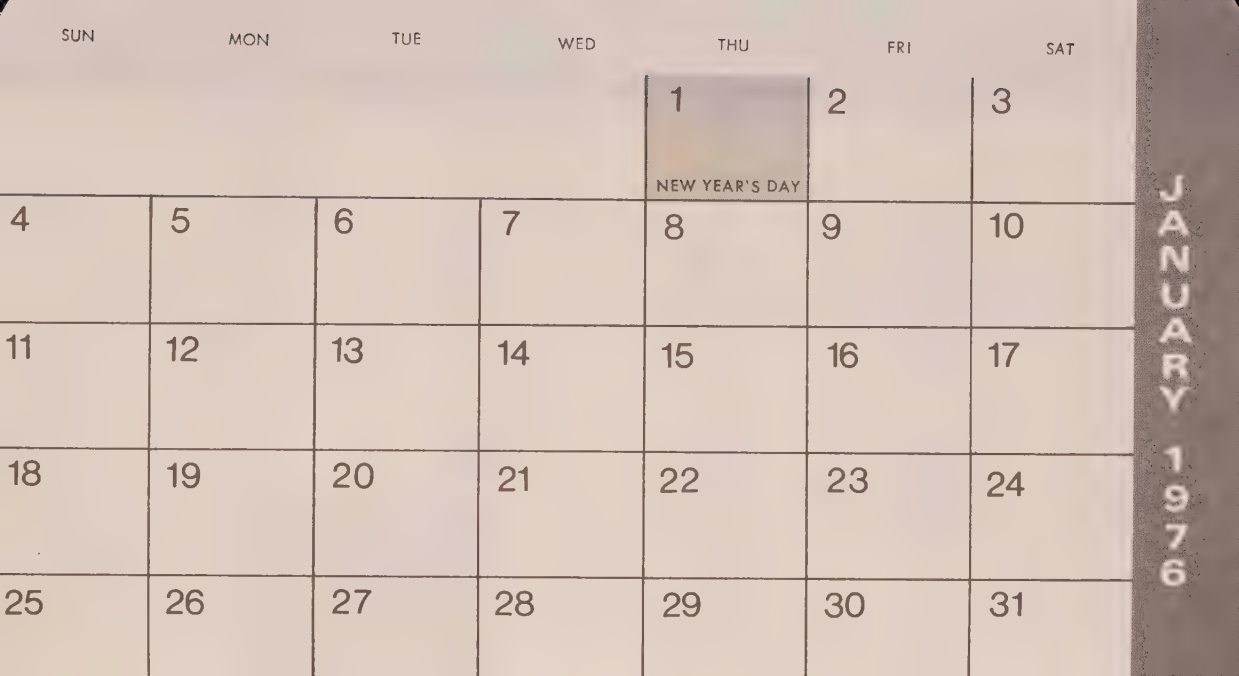
thu	fri	1 sat
6	7	8
13	14	15
20	21	22
27 THANKSGIVING DAY	28	29 HANUKAH

NOVEMBER 1975

sun	mon	tue	wed
	1	2	3
7	8	9	10
14	15	16	17
21	22 WINTER BEGINS	23	24
28	29	30	31

thu	fri	sat
	5	6
1	12	13
8	19	20
25 HRISTMAS DAY	26	27

DECEMBER 1975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JANUARY 1976

ADVANCE PLANNING FOR NEXT YEAR

JANUARY

FEBRUARY

MARCH

APRIL

MAY

JUNE

JULY

AUGUST

SEPTEMBER

OCTOBER

NOVEMBER

DECEMBER

JANUARY 1976

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NOVEMBER 1976

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DECEMBER 1976

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TELEPHONE NUMBERS

HIS SIZES

HEIGHT _____ WEIGHT _____

NECK _____ CHEST _____ WAIST _____

HAT _____ SHOE _____ SOCKS _____

BELT _____ GLOVE _____ SWEATER _____

SHIRT _____ SLEEVE _____ SHORTS _____

UNDERSHIRT _____ PAJAMAS _____ RING _____

HER SIZES

HEIGHT _____ WEIGHT _____

WAIST _____ SKIRT _____ COAT _____

HAT _____ SHOE _____ DRESS _____

BLOUSE _____ SWEATER _____ BELT _____

GLOVE _____ HOSE _____ ROBE _____

_____

ADDITIONAL NOTES

ABOUT NTIS continued . . .

Current summaries of new research reports and other specialized technical information in various categories of interest are published in weekly newsletters (Weekly Government Abstracts), which are indexed. An all-inclusive biweekly journal (Government Reports Abstracts) is published for librarians, technical information specialists and those requiring all the summaries categorized in a single volume and accompanying index.

A standing order microfiche service (SRIM) automatically provides subscribers with the full texts of research reports selected to satisfy individual requirements.

Other services, such as the coordination, packaging and marketing of unusual technical information for organizations may be specially designed, anytime.

Our goal is to give you timely information when you want. Should you have a problem or a request which requires fast action, telephone us.

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(703) 321-8948

Other Information
(703) 321-8500

National Technical Information Service
U.S. DEPARTMENT OF COMMERCE
5285 Port Royal Road
Springfield, Virginia 22151

NTIS
An agency of the U.S.
Department of Commerce

(To Be Completed By The Candidate)

NAME JULIUS W. HOBSON
(PRINT OR TYPE YOUR NAME AS YOU WANT IT ON THE CLUB RECORDS)

(SIGNATURE)

RESIDENCE ADDRESS 901 Sixth Street, S.W. Apartment 214

Washington, D.C. 20024

(202) 488-8290
(TELEPHONE NUMBER)

OFFICE ADDRESS The District Building, Room 509

14th and E Streets, N.W.

Wash., D.C. 20004 (202) 638-2223
(TELEPHONE NUMBER)

DESIRED ADDRESS FOR CLUB NOTICES: Residence XXXX

Office

PROFESSION / OCCUPATION / TITLE and description of duties

Councilmember-at-large

Serves as an elected member of the Council of the District of Columbia .

EXTRACT FROM THE BY-LAWS OF
THE FEDERAL CITY CLUB

ARTICLE I

MEMBERSHIP

1. CLASSES. The membership of the Club shall be composed of Founder, Resident, Non-Resident, and Honorary members.

2. LIMITATION. A limit on the number of members of each class shall be determined by the Board of Governors from time to time. Membership in any class shall not be transferable to another person.

3. ELIGIBILITY. Any person having a broad and active interest in governmental affairs and residing or working in the Greater Washington Area shall be eligible for membership as a Resident. Any such person neither residing nor working in that Area shall be eligible for membership as a Non-Resident. The Greater Washington Area shall be defined by the Board of Governors from time to time. Any such person deemed by the Board of Governors to be distinguished in his accomplishments and worthy of the honor of membership, without fees or dues, for a term of years or for life, may be designated as an Honorary member. There shall be no restriction or requirement of membership in any class by reason of race, color, or creed.

4. ELECTION. All Resident and Non-Resident Members shall be elected to membership by the Board of Governors. Every Candidate for Resident or Non-Resident membership shall be proposed by two or more Founder or Resident Members. The membership of a Candidate shall be and become effective on the first day of the month following the month of election, unless otherwise fixed by the Board of Governors. No member of the Board of Governors shall propose a Candidate for Resident membership. The procedures for election to membership may be set forth in the Rules of the Club; provided, however, that there shall be no procedure requiring unanimous action by the Board of Governors or an order of preference in acting upon proposals for membership.

5. TERMINATION. Continuing membership shall be conditioned upon the payment of fees and dues and conduct in accordance with these By-Laws and the Rules of the Club. If fees and dues are not paid within thirty days of the due date thereof or if these By-Laws or the Rules of the Club are violated by a member, then the Board of Governors may notify the member of his money obligation or his violative conduct, or both, and if payment or corrective action by the member is not accomplished within thirty days after the date of such notice, then appropriate action may be taken by the Board of Governors.

6. RESIGNATION. Any member may resign by submitting a written resignation to the Board of Governors. All money obligations to the Club shall be fully satisfied to the effective date of resignation, as determined by the Board of Governors.

7. ANNUAL MEETING. A meeting of the membership shall be held at least once each year for the purpose of transacting such business as may come before the meeting. Written notice of the time and place of such meeting shall be given to the membership and the President shall preside. From among the Founder and Resident members, a list of names of the Board of Governors shall be prepared and presented to the meeting by the President.

THE FEDERAL CITY CLUB

* * * *

PROPOSAL FOR MEMBERSHIP

OF

JULIUS W. HOBSON

Proposed by

(1) Dean Smith

(2) _____

Recommended by

(3) _____

(4) _____

(PLEASE PRINT OR TYPE ALL ABOVE NAMES IN FULL)

FOR USE OF THE BOARD OF GOVERNORS

Date Application Received _____

Date Applicant's Name Posted _____

Date Board of Governors Action _____

Date Membership Effective _____

Resident _____ Non-Resident _____

(To be Completed By The Proposers)

We hereby propose

JULIUS W. HOBSON

for membership in The Federal City Club and will submit our respective letters concerning him.

PROPOSERS:

(1) _____
(SIGNATURE)

(2) _____
(SIGNATURE)

NOTE: Each Proposer must furnish the Board of Governors with a statement of the length and character of his personal acquaintance with the Candidate, with emphasis on the nature of the Candidate's interest in governmental affairs, as required in Article 1, paragraph 3 of the By-Laws and, *in addition, shall obtain two letters of recommendation on behalf of the Candidate from Founder or Resident Members other than themselves.*

THE FEDERAL CITY CLUB

OUNDER MEMBERS

CLARENCE G. ADAMY
CHARLES BARTLETT
DAVID BRINKLEY
WILEY T. BUCHANAN, JR.
JOHN C. BULLITT
MORTIMER M. CAPLIN
C. WYATT DICKERSON, JR.
DOUGLAS DILLON
ROBERT J. DONOVAN
ANGIER BIDDLE DUKE
MAX FREEDMAN
HENRY GEMMILL
FITZHUGH GREEN
KARL G. HARR, JR.
JOHN S. HAYES
EDWARD M. KENNEDY
*ROBERT F. KENNEDY
CARLTON KENT
HERBERT W. KLOTZ
ROBERT E. LEE
WALTER C. LOUCHHEIM, JR.
ROBERT S. McNAMARA
LEONARD H. MARKS
BURKE MARSHALL
LOUIS E. MARTIN
EDWARD P. MORGAN
KENNETH B. NEWTON
*PAUL NIVEN
ROBERT G. NUNN, JR.
NORMAN S. PAUL
WALTER T. RIDDER
CARL T. ROWAN
FRANKLIN D. ROOSEVELT, JR.
ARTHUR SCHLESINGER, JR.
HUGH S. SIDEY
JOSEPH R. SLEVIN
HOWARD K. SMITH
STEPHEN E. SMITH
WALTER D. SOHIER
GEORGE STEVENS, JR.
R. PETER STRAUS
JAMES W. SYMINGTON
WILLIAM W. WARNER
VAL J. WASHINGTON
EDWARD WEINTAL
J. RUSSELL WIGGINS
CHARLES F. WILLIS, JR.
DONALD M. WILSON
WILLARD W. WIRTZ

*Deceased

The Federal City Club was founded to create a gathering place in downtown Washington for members with an interest in public affairs and government life.

It is a luncheon club for members and their guests only, with a clubroom, dining room and outside terrace on the ground floor of the Sheraton-Carlton Hotel at Sixteenth and K Streets N.W. The Club has health facilities on the floor below, including a steam room, exercise equipment, and massage facilities.

The Federal City Club confines its membership to persons who are concerned with public affairs. It is completely nonpartisan and observes no racial distinctions in the choice of its members. Through the nature of its membership and by means of occasional Club dinners, it is intended as a stimulating center of political thought.

The clubroom and, in warm weather, the outside terrace are open to members and guests for cocktails in the evening. Although dinner is not served regularly, the clubroom and the terrace are available during the evening hours by special arrangement for dinner parties.

The Federal City Club was formed by forty-nine Founder Members. To complete the initial membership, selective invitations to Residents (those within the Greater Washington Area) and Non-Residents (those outside the Greater Washington Area) were issued by the Founder Members and the Board of Governors.

At the present time, Resident members are elected by the Board of Governors on the basis of two Resident members proposing, and two other Resident members supporting, a candidate who has been personally introduced to or is known to two or more Governors. The election of new Resident members is normally taken up at the January and June meetings of the Board.

Members of Congress and the Diplomatic Corps are charged as Non-Residents. The election of Non-Resident members may occur at any meeting of the Board on the basis of two Resident members proposing a candidate.

The initiation fee for Resident membership is $200, and the annual dues are $180. The initiation fee for Non-Resident membership is $100, and the annual dues are $90.

THE FEDERAL CITY CLUB

THE FEDERAL CITY CLUB

BY-LAWS

RULES OF THE CLUB

AND

MEMBERSHIP DIRECTORY

THE FEDERAL CITY CLUB

BY-LAWS

* *

ARTICLE I

Membership

1. Classes. The membership of the Club shall be composed of Founder, Resident, Non-Resident, and Honorary members.

2. Limitation. A limit on the number of members of each class shall be determined by the Board of Governors from time to time. Membership in any class shall not be transferable to another person.

3. Eligibility. Any person having a broad and active interest in governmental affairs and residing or working in the Greater Washington Area shall be eligible for membership as a Resident. Any such person neither residing nor working in that Area shall be eligible for membership as a Non-Resident. The Greater Washington Area shall be defined by the Board of Governors from time to time. Any such person deemed by the Board of Governors to be distinguished in his accomplishments and worthy of the honor of membership, without fees or dues, for a term of years or for life, may be designated as an Honorary member. There shall be no re-

striction or requirement of membership in any class by reason of race, color or creed.

4. **Election.** All Resident and Non-Resident Members shall be elected to membership by the Board of Governors. Every Candidate for Resident or Non-Resident membership shall be proposed by invitation of the Board of Governors or by two or more Founder or Resident Members. The membership of a Candidate shall be and become effective on the first day of the month following the month of election, unless otherwise fixed by the Board of Governors. No member of the Board of Governors shall propose a Candidate for Resident membership. The procedures for election to membership may be set forth in the Rules of the Club; provided, however, that there shall be no procedure requiring unanimous action by the Board of Governors or an order of preference in acting upon proposals for membership.

5. **Termination.** Continuing membership shall be conditioned upon the payment of fees and dues and conduct in accordance with these By-Laws and the Rules of the Club. If fees and dues are not paid within thirty days of the due date thereof or if these By-Laws or the Rules of the Club are violated by a member, then the Board of Governors may notify the member of his money obligation or his violative conduct, or both, and if payment or corrective action by the member is not accomplished within thirty

days after the date of such notice, then appropriate action may be taken by the Board of Governors.

6. Resignation. Any member may resign by submitting a written resignation to the Board of Governors. All money obligations to the Club shall be fully satisfied to the effective date of resignation, as determined by the Board of Governors.

7. Annual Meeting. A meeting of the membership shall be held at least once each year for the purpose of transacting such business as may come before the meeting. Written notice of the time and place of such meeting shall be given to the membership and the President shall preside. From among the Founder and Resident members, a list of names of the Board of Governors shall be prepared and presented to the meeting by the President.

ARTICLE II

Governors

1. Board of Governors. The Directors of the Club shall be known as "Governors" and the Governors of the Club shall constitute a Board of Directors, known as the "Board of Governors," which shall consist of not more than fifteen nor less than five Founder or Resident members, excepting the possibility that a

smaller number may result from the occurrence of vacancies.

2. **Election.** The Governors shall be elected by the Board of Governors from among the Founder and Resident members and the names of the Governors shall be presented to the membership at an annual meeting.

3. **Powers.** The Board of Governors shall have and be able to exercise and delegate to committees or to individuals all of the powers of the Club under its Articles of Incorporation and these By-Laws, unless otherwise expressly reserved.

4. **Annual Meeting.** A meeting of the Board of Governors shall be held at least once each year for the purpose of electing members of the Board of Governors and Officers and for the purpose of transacting such other business as may come before the meeting. Written notice of the time and place of such meeting shall be given to the Governors and the President shall preside.

ARTICLE III

Officers

1. **President.** The President shall be the chief executive of the Club.

2. **Other Officers.** Two Vice Presidents, a Secretary and a Treasurer shall perform such du-

5. The Board of Governors may adopt, from time to time, such exceptions to the foregoing By-Laws concerning fees and dues as it may deem beneficial to the interest of the Club.

ARTICLE V

Management

1. General Manager. A General Manager shall be employed by the Club pursuant to authorization by the Board of Governors. The General Manager shall perform such functions as the Board of Governors or other authority may from time to time direct.

2. Chits. Club members must sign chits for all food, beverage and other services obtained in or through the Club and no Officer or employee of the Club shall be permitted to accept any cash payment.

3. Gratuities. No gratuity or tip shall be given by any member for any service, nor accepted by any employee, and every chit shall have an appropriate percentage added to it for this purpose.

4. Bills. Monthly bills shall be sent to each member to cover his chits and gratuities and annual dues shall be billed as determined by the Board of Governors or other authority.

5. Rules of the Club. Rules and procedures pertaining to the management of the Club may

ties as are common to their offices or otherwise assigned by the President.

3. **Election.** Officers shall be elected by the Board of Governors from among the Governors of the Club. Officers may succeed themselves in any office.

ARTICLE IV

Fees and Dues

1. **Founder Member Fees and Dues.** The entrance fee and lifetime payment of dues for Founder members shall be One Thousand Dollars ($1,000.00), plus tax, if any.

2. **Resident and Non-Resident Fees.** The entrance fee shall be Two Hundred Dollars $200.00) for Resident members and One Hundred Dollars ($100.00) for Non-Resident members, plus tax, if any, in each case.

3. **Resident and Non-Resident Dues.** The annual dues shall be One Hundred Eighty Dollars ($180.00) for Resident members and Ninety Dollars ($90.00) for Non-Resident members, plus tax, if any, in each case, and annual dues shall be prorated on an equal monthly basis for the year in which membership becomes effective or ceases.

4. **Payment.** Entrance fees shall be payable upon election to membership and annual dues shall be payable periodically in advance.

be promulgated by the Board of Governors from time to time and distributed to the membership.

ARTICLE VI

Construction and Amendments

1. **Construction of the By-Laws.** All questions concerning the construction of these By-Laws shall be determined finally by the Board of Governors, unless, thereafter, otherwise determined by the membership.

2. **Amendments.** These By-Laws may be amended by action of the Board of Governors provided proposed amendments are set forth in full and posted conspicuously in the Club premises not less than ten days before the meeting of the Board of Governors at which such action is to be finally taken.

THE FEDERAL CITY CLUB

RULES OF THE CLUB

The Board of Governors of The Federal City Club has adopted the following Rules in accordance with Article V, paragraph 5, of the By-Laws:

I. Membership and Classification

1. Membership in the Club is by action of the Board of Governors. Membership forms are available to Founder and Resident Members who wish to propose a Candidate.

2. Founder or Resident Members proposing a Candidate for Resident membership shall submit letters of recommendation on behalf of the Candidate and, in addition, shall obtain two letters of recommendation on behalf of the Candidate from Founder or Resident Members other than themselves.

3. Founder or Resident Members proposing a Candidate for Resident membership shall assure themselves that the Candidate is known to at least two members of the Board of Governors.

4. Founder or Resident Members may not propose or recommend more than two Candidates for Resident membership in any one year; provided, however, that the Board of Governors may waive this rule in any particular case.

5. The Board of Governors shall act on com-

pleted proposals for Resident membership in January and June of each year.

6. If a Candidate is elected to membership, then the Board of Governors shall so inform the Candidate and the Proposers.

7. If a Candidate is not elected to membership, then the Board of Governors shall so inform the Proposers.

8. If a Candidate for Resident membership is not elected at one of the semi-annual meetings held for this purpose, then the proposal of that Candidate shall be considered at the next such meeting, and if not then elected, the proposal of that Candidate shall be of no further effect; provided, however, that the same Candidate may be proposed anew at a later date.

9. The class of membership of any Candidate shall be determined by the Board of Governors. Members of Congress, government employees assigned overseas, ambassadors and representatives of foreign countries, eligible candidates who have not reached their 32nd birthday and spouses of Founder and Resident members are deemed to be Non-Residents.

THE FEDERAL CITY CLUB

1. The facilities of the Club are closed on Saturdays and Sundays. They are open during the following hours:

Dining Room .....11:00 AM to 3:00 PM
Health Club .....11:00 AM to 7:00 PM
Clubroom and Terrace .....11:00 AM to 7:00 PM

III. Charges and Tipping

1. Charges for all food and beverages served in the Club and all health club services shall be recorded on appropriate chits and signed by a member. No cash transactions are allowed.

2. Food and beverage chits will have 15% added for gratuities. These funds will be distributed to the dining room and bar staff in lieu of tips.

3. Charges for health club services shall be posted on the premises and tipping is not allowed.

4. Use of the cloakroom is without charge and tipping is not allowed.

IV. Billing and Payment of Accounts

1. The entrance fees for Resident Members ($200 plus tax, if any) and for Non-Resident Members ($100 plus tax, if any) are due and payable in full at the time of election to membership; provided, however, that a newly elected member may arrange to pay his entrance fee in increments of not less than $20 per month.

2. The annual dues for Resident Members ($180 plus tax, if any) and for Non-Resident Members ($90 plus tax, if any) are due and payable each year during the month of April; provided, however, that a member may arrange to pay his annual dues in monthly, quarterly or semiannual increments. Normally, members will

be billed for annual dues at the first of April each year. At the time of election to membership, the first annual dues will be prorated to cover the months remaining through the following March.

3. Monthly bills for food, beverage, and health club services will be sent to every member incurring any such charges and all payments are due within ten days of the date of the bill.

4. Failure to settle accounts within sixty days may result in posting and suspension or expulsion.

V. Guests and Visitors

1. Members may invite and accompany guests to the Club at any time.

2. No guest card privileges are allowed.

VI. Reservations and Private Parties

1. Reservations for luncheon and appointments for massages may be made through the Club office (347-2717).

2. Arrangements for private parties by members may be made through the Club office. The dining room or the terrace, or both, may be made available for private parties any day after 3 PM. The clubroom may be made available for private parties at any time on Saturdays and Sundays and on other days after 6:00 PM.

VII. Damages and Violations

1. Loss or damage to property and violations of the By-Laws or these Rules of the Club are to be reported to the Manager. The Manager and all employees of the Club and the Hotel are required to report any such damages and violations to the officers of the Club.

OFFICERS OF THE CLUB

Mr. Charles L. Bartlett ..... President

Congressman James W. Symington .. Vice President

Mr. Robert G. Nunn, Jr. .... Treasurer & Counselor

Mr. C. Wyatt Dickerson, Jr. ..... Secretary

Mr. Edward Weintal ..... House Committee

Major General Chester V. Clifton ..... Membership Committee

Mr. Fitzhugh Green ..... Membership Committee

Mr. Clarence G. Adamy ..... Member Board of Governors

Mr. Joseph A. Califano Member Board of Governors

Mr. Philip L. Geyelin .. Member Board of Governors

Mr. Cord Meyer, Jr. .... Member Board of Governors

Mr. William W. Warner ..... Member Board of Governors

Mr. Charles F. Willis, Jr. ..... Member Board of Governors

Mr. Frank Valle ..... Manager

FOUNDER MEMBERS

Adamy, Clarence G.
Bartlett, Charles L.
Brinkley, David
Buchanan, Wiley T., Jr.
Bullitt, John C.
Caplin, Mortimer M.
Dickerson, C. Wyatt, Jr.
Dillon, Douglas
Donovan, Robert J.
Duke, Angier Biddle
Freedman, Max
Gemmill, Henry
Green, Fitzhugh
Harr, Karl G., Jr.
Hayes, John S.
Kennedy, Edward M.
*Kennedy, Robert F.
Kent, Carleton
Klotz, Herbert W.
Lee, Robert Edmund
*Louchheim, Walter C., Jr.
Marks, Leonard H.
Marshall, Burke
Martin, Louis Emanuel
Morgan, Edward P.
McNamara, Robert S.
Newton, Kenneth B.
*Niven, Paul
Nunn, Robert G., Jr.
Paul, Norman S.
Ridder, Walter T.
Roosevelt, Franklin D.
Rowan, Carl T.
Schlesinger, Arthur, Jr.
Sidey, Hugh S.
Slevin, Joseph R.
Smith, Howard K.
Smith, Stephen E.
Sohier, Walter D.
Stevens, George, Jr.
Straus, R. Peter
Symington, James W.
Warner, William W.
Washington, Val. J.
*Weintal, Edward
Wiggins, J. Russell
Willis, Charles F., Jr.
Wilson, Donald M.
Wirtz, W. Willard

---

* Deceased

HONORARY MEMBERS

Mrs. Nicholas Longworth

Mayor Walter E. Washington

RESIDENT MEMBERS

Abramson, David B.
Aggrey, O. Rudolph
Agronsky, Martin
Allen, Leonard
Alsop, Stewart J. O.
Amory, Robert, Jr.
Andrews, Peter C.
Apple, R. W., Jr.
Apter, David
Armbrister, Trevor

Bailey, Douglas L.
Baker, George W.
Barnes, Peter
Barnes, Richard J. H.
Barnett, David L.
Baroni, Geno C.
Baruch, Stanley
Beaty, Jack
Beveridge, Albert J., III
Biddle, James
Billingsley, Henry E.
Biltchik, David E.
Bishop, James D. P., Jr.
Blair, William McC., Jr.
Boasberg, Tersh
Bogan, Eugene F.
Boskey, Bennett
Bower, Robert T.
Bowsher, Charles A.
Boyd, Robert S.
Bradlee, Benjamin C.
Braestrup, Peter
Brandon, Henry
Brasfield, George F., Jr.
Broom, William W.
Brown, J. Carter
Browne, Luis
Browne, Vincent J.
Buchanan, Patrick J.
Burke, Vincent J.
Burling, Edward, Jr.
Busby, Horace

Califano, Joseph A., Jr.
Calleo, David P.
Canter, Milton E.
Carothers, Neil, III
Carpenter, Liz
Carty, Winthrop P.
Caruso, Lawrence R.
Carver, George A., Jr.
Casey, William
Cauley, John R.
Challinor, David
Chancellor, John W.
Chapin, Aldus H.
Charyk, Joseph V.
Choate, Robert B.
Clifton, Chester V.
Cline, Ray Stainer
Cohen, Wallace M.
Cohn, Marcus
Connally, N. Thomas
Cope, S. Raymond
Crocker, William H.
Crawford, Kenneth G.
Cutler, Lloyd N.

Dale, Edwin L., Jr.
Davis, Sidney A.
Day, J. Edward
Day, Osborne A.
Dear, David
Deardourff, John D.
DeButts, Henry M.
Dell, Donald L.
Denbo, Milton C.
Desautels, Claude J.
DeSegonzac, A.
Dickerson, Nancy
Donatelli, Louis T.
Donich, Patricia, S.
Donnelley, Dixon
Donnelly, William M., Jr.
Downs, Kenneth T.
Doyle, James S.
Drew, Elizabeth B.
Duffner, John T.
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Durrance, Grace T.

Eisele, Albert A.
Elfin, Mel
Emory, Alan S.
Epstein, Lionel C.
Evans, Courtney A.

Farmer, Thomas L.
Feldman, Myer
Fentress, Simmons
Finch, Robert H.
Finney, Thomas D., Jr.
Flanigan, Peter M.
Fleming, Harold C.
Free, Lloyd A.
Freeland, T. Paul
Freidberg, Sidney
Friedman, Alvin

Gardner, Arthur W.
Gardner, John W.
Garment, Leonard
Garside, Grenville
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Geoghegan, William A.
Germond, Jack W.
Geyelin, Philip L.
Ginsburg, David
Giordano, Henry L.
Glass, Andrew J.
Gleason, Jack A.
Glennan, T. Keith
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Gold, Victor
Goldfarb, Ronald L.
Goodrich, Nathaniel H.
Gorman, Thomas F.
Goulding, Phil G.
Greeley, Donald R.
Greenberg, Sanford D.
Greensfelder, Edward
Guggenheim, Charles

Hahn, Gilbert, Jr.
Halberstam, Michael J.
Halperin, Morton H.
Hancock, William W.
Hansen, Kenneth R.
Harding, Bertrand M.
Harriman. W. Averell

Harwood, Richard L.
Haskins, Caryl P.
Herling, John
Herzstein, Robert E.
Heuer, Scott, Jr.
Higgins, George G.
Hill, Dumond P.
Hinden, Stanley J.
Hines, William J.
Hoffman, Irving
Hoopes, Townsend
Hope, Robert S.
Hornblower, Marshall
Howard, Daggett H.
Hutson, Harrison D.
Hyman, Lester S.

Irwin, Donald McD.
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Jacks, Ronald A.
Jacobsen, Lawrence
Jewett, Freeborn G., Jr.
Johnson, John A.
Jordan, Frank J.
Jordan, Richard D.
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Kampelman, Max M.
Kaplan, Sheldon Z.
Katz, Jacob E.
Kayser, Paul
Keller, John G.
Kelly, John M.
Kenyon, Richard L.
Kilpatrick, Carroll
King, John A., Jr.
Klein, Herbert A.
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Kraslow, David
Kreisman, Norman
Kunen, James L.
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Lankler, Alexander M.
Lawrence, David
Lee, Frederick B.
Leonhart, William
Letson, William N.
Leva, Marx
Levine, Aaron M.
Levy, Harold R.
Lilley, Tom
Linowitz, Sol M.
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Lowenstein, James G.
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McCormack, James
McKillop, David H.
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Newmyer, Arthur G., Jr.
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O'Brien Edward W.
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Oppenheimer, Franz M.
O'Rourke, Lawrence M.
Osborne, John
Otten, Alan L.

Paddock, William C.
Peabody, Endicott
Peirce, Neal R.
Perlman, T. S. L.
Phelps, Robert H.
Pincus, Walter H.
Podesta, Robert A.
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Poynter, Nelson
Pozen, Walter
Prentice, Colgate S.
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Quesada, E. R.

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Rashish, Myer
Rauh, Joseph L., Jr.
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Reis, Harold F.
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Richardson, John Jr.
Rill, James F.
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Robinson, James B.
Rodriguez, Armando M.
Rogers, Warren
Rohrbacher, Bruce W.
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Romney, George
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Ross, Thomas B.
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Rowe, Frederick M.
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Ruttenberg, Stanley H.

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Schmidt, Richard M.
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Seib, Charles B.
Siegel, Norman S.
Shakespeare, Frank
Sherrod, Robert Lee
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Shultz, George P.
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Silverstein, Leonard L.
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Smith, Ralph S.
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Spivak, Jonathan M.
Spivak, Lawrence E.
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Stein, Julian S., Jr.
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Stern, Laurence
Stern, Philip M.
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Surrey, Walter S.
Symington, Lloyd
Szulc, Tad

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Theis, J. William
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Ture, Norman B.

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VanDyk, Ted
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Williams, David C.
Williams, Eddie N.
Williams, Edward Bennett
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Wills, George S.
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Wollenberg, J. Roger
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Woodward, Robert F.
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Sparks, Will
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Stark, Claude A.
Stern, Samuel A.
Stillman, John S.
Stull, Lee T.
Sulzberger, Arthur O.
Sundlun, Bruce G.
Surrey, Stanley S.

Tempelsman, Maurice
Thompson, Robert E.
Thurman, Howard
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Tubby, Roger W.
Tufo, Peter
Tuthill, John B.

Uhl, Edward G.

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Warnecke, John C.
Weidenfeld, Edward L.
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Whisonant, Wylie H., Jr.
White, Michael M.
White, Theodore H.
Williams, Harold W.
Wilson, Henry H., Jr.
Windman, Arnold L.
Woods, George D.
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Wyman, Thomas G.

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1975

JANUARY 1975

S	M	T	W	T	F	S
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FEBRUARY 1975

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MARCH 1975

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APRIL 1975

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MAY 1975

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JUNE 1975

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JULY 1975

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AUGUST 1975

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SEPTEMBER 1975

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OCTOBER 1975

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NOVEMBER 1975

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23/30	24	25	26	27	28	29

DECEMBER 1975

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14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

DECEMBER 1974

SUN	MON	TUE	WED	THU	FRI	SAT
1	2	3	4	5	6	7
8	9 HANUKAH	10	11	12	13	14
15	16	17	18	19	20	21
22 WINTER BEGINS	23	24	25 CHRISTMAS DAY	26	27	28
29	30	31				

sun	mon	tue	wed
			1 NEW YEAR'S DAY
5	6	7	8
12	13	14	15
19	20	21	22
26	27	28	29

2 thu	3 fri	4 sat
9	10	11
16	17	18
23	24	25
30	31	

JANUARY 1975

sun	mon	tue	wed
2	3	4	5
9	10	11	12 ASH WEDNESDAY ABRAHAM LINCOLN
16	17 GEORGE WASHINGTON	18	19
23	24	25	26

thu	fri	sat
		1
6	7	8
13	14 ST. VALENTINE'S DAY	15
20	21	22 TRADITIONAL GEORGE WASHINGTON
27	28	

FEBRUARY 1975

sun	mon	tue	wed
2	3	4	5
9	10	11	12
16	17 ST. PATRICK'S DAY	18	19
23 PALM SUNDAY	24	25	26
30 EASTER	31		

thu	fri	sat
		1
6	7	8
13	14	15
20	21 SPRING BEGINS	22
27 PASSOVER	28 GOOD FRIDAY	29

MARCH 1975

sun	mon	tue	wed
		1	2
6	7	8	9
13	14	15	16
20	21	22	23
27	28	29	30

thu	fri	sat
3	4	5
10	11	12
17	18	19
24	25	26

APRIL 1975

sun	mon	tue	wed
4	5	6	7
11 MOTHER'S DAY	12	13	14
18	19 VICTORIA DAY, CANADA	20	21
25	26 MEMORIAL DAY	27	28

thu	fri	sat
1	2	3
8	9	10
15	16	17
22	23	24
29	30 TRADITIONAL MEMORIAL DAY	31

MAY 1975

sun	mon	tue	wed
1	2	3	4
8	9	10	11
15 FATHER'S DAY	16	17	18
22	23	24	25
29	30		

thu	fri	sat
5	6	7
12	13	14 FLAG DAY
19	20	21 SUMMER BEGINS
26	27	28

JUNE 1975

sun	mon	tue	wed
		1 DOMINION DAY, CANADA	2
6	7	8	9
13	14	15	16
20	21	22	23
27	28	29	30

thu	fri	sat
3	4 INDEPENDENCE DAY	5
10	11	12
17	18	19
24	25	26
31		

JULY 1975

sun	mon	tue	wed
3	4	5	6
10	11	12	13
17	18	19	20
24 31	25	26	27

thu	fri	sat
	1	2
7	8	9
14	15	16
21	22	23
28	29	30

AUGUST 1975

sun	mon	tue	wed
	1 LABOR DAY	2	3
7	8	9	10
14	15 YOM KIPPUR	16	17
21	22	23 AUTUMN BEGINS	24
28	29	30	

thu	fri	sat
4	5	6 JEWISH NEW YEAR
11	12	13
18	19	20
25	26	27

SEPTEMBER 1975

sun	mon	tue	wed
			1
5	6	7	8
12 TRADI-TIONAL COLUMBUS DAY	13 COLUMBUS DAY THANKSGIVING DAY, CANADA	14	15
19	20	21	22
26	27 VETERANS' DAY	28	29

thu	fri	sat
	3	4
	10	11
6	17	18
23	24	25
30	31	

HALLOWE'EN

OCTOBER 1975

sun	mon	tue	wed
2	3	4	5
9	10	11 TRADITIONAL VETERANS' DAY	12
16	17	18	19
23 30	24	25	26

thu	fri	1 sat
6	7	8
13	14	15
20	21	22
27 THANKSGIVING DAY	28	29 HANUKAH

NOVEMBER 1975

sun	mon	tue	wed
	1	2	3
7	8	9	10
14	15	16	17
21	22 WINTER BEGINS	23	24
28	29	30	31

thu	fri	sat
4	5	6
11	12	13
18	19	20
25 CHRISTMAS DAY	26	27

DECEMBER 1975

JANUARY 1976

SUN	MON	TUE	WED	THU	FRI	SAT
				1 NEW YEAR'S DAY	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
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ADVANCE PLANNING FOR NEXT YEAR

JANUARY

FEBRUARY

MARCH

APRIL

MAY

JUNE

JULY

AUGUST

SEPTEMBER

OCTOBER

NOVEMBER

DECEMBER

JANUARY 1976

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FEBRUARY 1976

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MARCH 1976

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APRIL 1976

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JUNE 1976

S	M	T	W	T	F	S
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JULY 1976

S	M	T	W	T	F	S
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11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

AUGUST 1976

S	M	T	W	T	F	S
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SEPTEMBER 1976

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NOVEMBER 1976

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TELEPHONE NUMBERS

HIS SIZES

HEIGHT _____ WEIGHT _____

NECK _____ CHEST _____ WAIST _____

HAT _____ SHOE _____ SOCKS _____

BELT _____ GLOVE _____ SWEATER _____

SHIRT _____ SLEEVE _____ SHORTS _____

UNDERSHIRT _____ PAJAMAS _____ RING _____

HER SIZES

HEIGHT _____ WEIGHT _____

WAIST _____ SKIRT _____ COAT _____

HAT _____ SHOE _____ DRESS _____

BLOUSE _____ SWEATER _____ BELT _____

GLOVE _____ HOSE _____ ROBE _____

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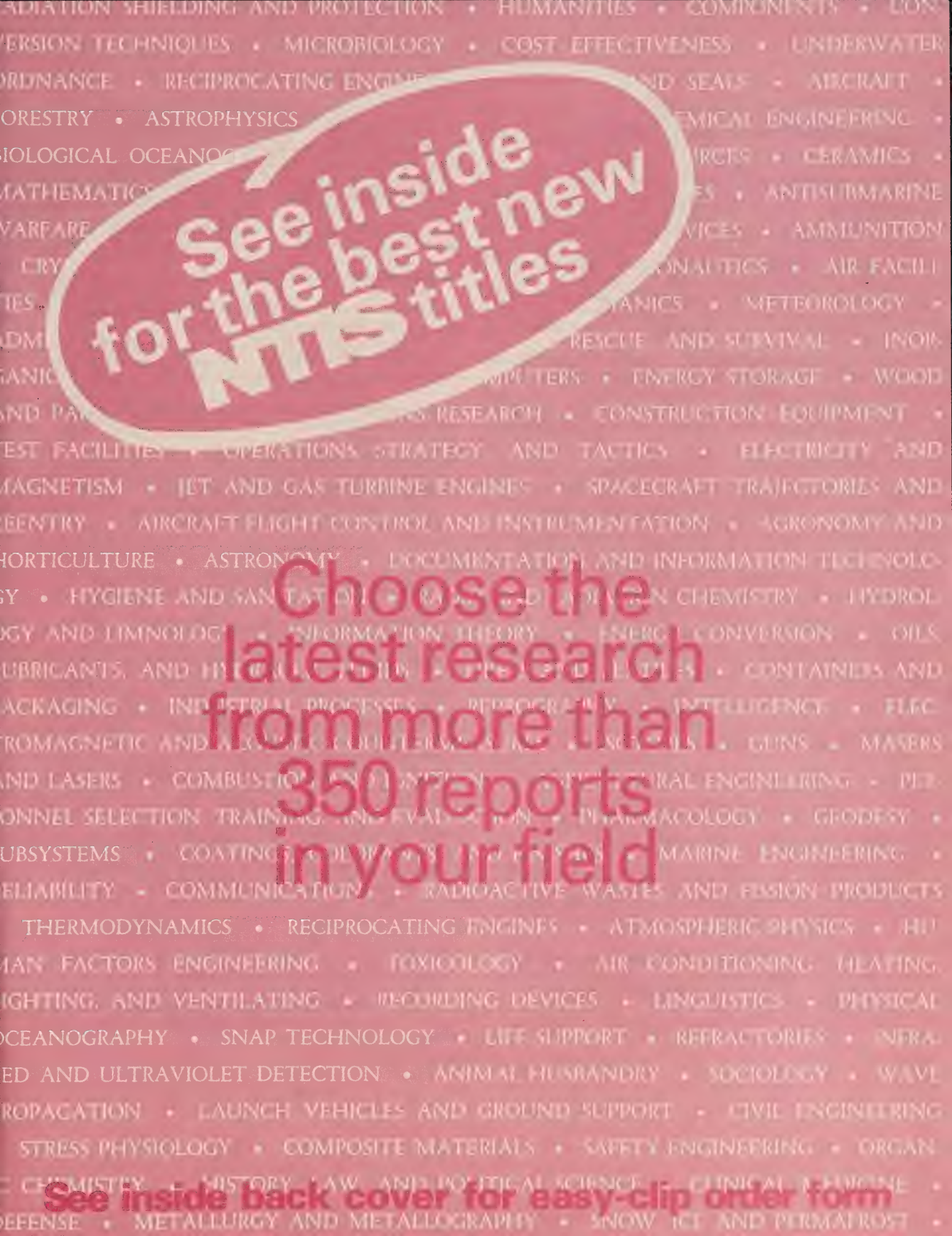
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Markets Abroad for U.S. Consumer Goods

A brief U.S. Government survey of the market potential for American consumer goods in 20 foreign countries.

U.S. DEPARTMENT OF COMMERCE, Domestic and International Business Administration, Bureau of International Commerce, Washington, D.C. 145p
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To provide industry with information about the market potential of American consumer goods, the Department of Commerce asked 20 U.S. Foreign Service posts to make a brief survey of their market and indicate the products that already have or can be expected to have good sales potentials in their respective countries. The information was obtained by the posts in late 1973 by a variety of means, such as interviews with department and chain store executives and importers, results of U.S. trade events, prior research studies, and import and market share statistics. The report is divided into two sections: Country Summary Notes and Product Information. A number of U.S. Foreign Service post reports, providing additional market information, are referenced in the text of this survey.

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D. F. Putnam, and R. L. Vaughan.
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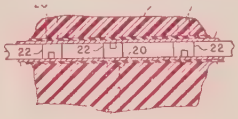
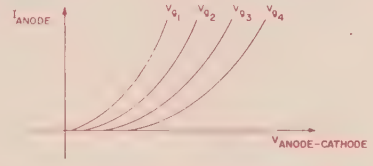


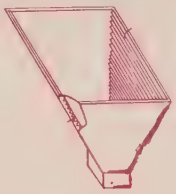
An electrolytic cell is made up of a stack of polysulfone plates faced with sheets of platinum bonded by silicone rubber and mechanically secured to their plates by Teflon screws having heads serving as spacers between opposed platinum sheets.

Integrated Structure Vacuum Tube.
J. Dimeff, and W. J. Kerwin.
National Aeronautics and Space Administration. Ames Research Center, Moffett Field, Calif. Filed 24 Jul 74, 18p
NASA-CASE-ARC-10445-1 Government-owned invention available for licensing. Copy of application available NTIS.
PAT-APPL-491 418/PS PC$3.25/MF$2.25



High efficiency, multi-dimensional thin film vacuum tubes suitable for use in high temperature, high radiation environments are described. The tubes are fabricated by placing, as by photolithographic techniques, such as are used in solid state integrated circuits, thin film electrode members in selected arrays on facing interior wall surfaces of an alumina substrate envelope. Cathode members are formed using thin films of triple carbonate. The photoresist used in photolithography aids in activation of the cathodes by carbonizing and reacting with the reduced carbonates when heated in vacuum during forming. The finely powdered triple carbonate is mixed with the photoresist used to delineate the cathode locations in the conventional solid state photolithographic manner. Upon high temperature forming 9(1000 C) the barium, etc. is formed at the surface. Anode and grid members are formed using thin films of refractory metal.

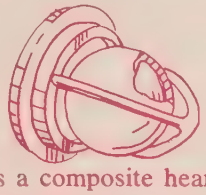
Horn Antenna Having V-Shaped Corrugated Slots.
C. A. Mentzer, and L. Peters, Jr..
National Aeronautics and Space Administration. Langley Research Center, Langley Station, Va. Filed 24 Jul 74, 8p
NASA-CASE-LAR-11112-1 Government-owned invention available for licensing. Copy of application available NTIS.
PAT-APPL-491 419/PS PC$3.25/MF$2.25



The development of a corrugated horn antenna in which the corrugated surfaces of the antenna are formed by V-shaped slots was reported. The depth of the slots is between 0.3125 and 0.625 wavelengths. For this range of depths the surface impedance is capacitive and operates in a cut-off mode. The V-shaped corrugated slots are more easily machined than previous slots and the resulting antenna is readily adaptable to unfurlable antennas for space applications.

—Biology and Medicine—

Composite Heart Valve Poppet.
Department of Health, Education, and Welfare, Washington, D.C. Filed 23 Aug 74, 10p DHEW-E-164-73 Government-owned invention available for licensing. Copy of application available NTIS.
PAT-APPL-500 056/PS PC$3.25/MF$2.25

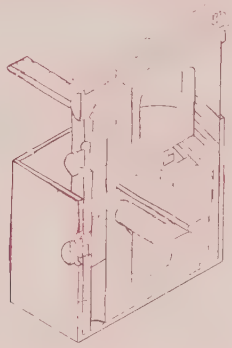


The patent application is a composite heart valve poppet for use in ball-in-cage type artificial heart valves. The poppet includes a core of a rigid material such as polypropylene, covered by a jacket of an elastomer such as segmented polyether polyurethane. The heart valve poppet provides improved operating performance, physiological acceptability, length of service and reliability compared to previously known poppets.

—Instruments—

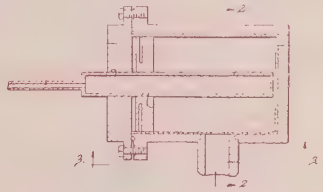
Compact Fast Analyzer of Rotary Curvette Type.
Louis H. Thacker.
Atomic Energy Commission, Washington, D.C. Filed 12 Mar

74, 9p Government-owned invention available for licensing. Copy of application available NTIS.
PAT-APPL-450 521/PS PC$3.25/MF$2.25



The patent application describes a compact fast analyzer of the rotary cuvette type for simultaneously determining concentrations in a multiplicity of discrete samples using either absorbance or fluorescence measurement techniques. A rigid, generally rectangular frame defines optical passageways for the absorbance and fluorescence measurement systems. The frame also serves as a mounting structure for various optical components as well as for the cuvette rotor mount and drive system. A single light source and photodetector are used in making both absorbance and fluorescence measurements. Rotor removal and insertion are facilitated by a swing-out drive motor and rotor mount.

Device for Measuring Biaxial Strain.
Thomas R. Billeter.
Atomic Energy Commission, Washington, D.C. Filed 26 Apr 74, 17p Government-owned invention available for licensing. Copy of application available NTIS.
PAT-APPL-464 427/PS PC$3.25/MF$2.25



The patent application describes a device for measuring the biaxial strain of a test specimen using a coaxial resonant cavity, made to resonate in at least two different modes by electromagnetic energy supplied to the cavity.

Eddy Sonic Stethoscope.
Victor E. Pike.
Department of the Air Force Washington D C Filed 9 Jul 74, 12p Government-owned invention available for licensing. Copy of application available NTIS.
PAT-APPL-486 802/PS PC$3.25/MF$2.25

The patent application relates to a modified eddy sonic stethoscope probe for use in the non-destructive testing of materials by imparting mechanical energy to the material causing it to vibrate and emit detectable sound waves which can be listened to with the stethoscope. A piece of expanded synthetic resinous material sold under the trademark Styrofoam is positioned between the outside of a solenoidal coil used as a doorbell type ringer and a flexible listening tube thereby effectively insulating the two elements. The armature is retained in the coil with silicone rubber to allow free movement along the longitudinal axis. A surgical boat isolates the listening tube from the workpiece.

Electrical Conductivity Cell and Method for Fabricating the Same.
W. P. Gilbreath, M. J. Adamson, and A. Fassbender.
National Aeronautics and Space Administration. Ames Research Center, Moffett Field, Calif. Filed 16 Jul 74, 12p NASA-CASE-ARC-10810-1 Government-owned invention available for licensing. Copy of application available NTIS.
PAT-APPL-489 009/PS PC$3.75/MF$2.25

A flask having a threaded neck and a cap adapted for threaded engagement on the neck is described. A laminated disk between the cap and the neck forms a gas tight seal, and the cap has a central opening that exposes a medial region of the disk. Piercing the disk through the opening are two electrodes, the inner ends of which contact the sample within the flask and the outer ends of which afford connection of test equipment. Cylindric glass tubes are fitted over the external portion of the electrodes to provide physical support; silicone rubber or the like serves to retain the glass cylinders in place and form a gas tight seal between the cylinders and the electrodes. Shrinkable tubing is shrunk over the glass tubes to afford further mechanical support and sealing.

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